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FEBRUARY 11, 1950

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*Index to Advertisers pp. 5 & 6*

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**MONSANTO CHEMICALS LIMITED**
VICTORIA STATION HOUSE, LONDON, S.W.1

The
# CHEMIST AND DRUGGIST
for RETAILER—WHOLESALER—MANUFACTURER
FEBRUARY 11. 1950
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## CONTENTS


| | | | |
|---|---|---|---|
| Births | 174 | Local News | 168 |
| Branch and Association Meetings | 175 | Marriages | 174 |
| Business Changes | 170 | News in Pictures | 179 |
| Coming Events | 196 | News of the Week | 165 |
| Company News | 170 | Northern Ireland Health Services | 188 |
| Correspondence | 191 | P.A.T.A. | 173 |
| "Co-starring" the Pharmacist | 189 | Personalities | 171 |
| Deaths | 174 | Pharmaceutical Society of Great Britain:—Council Meeting | 185 |
| Editorial Articles:— | | Report on the Chemical Industry | 190 |
| Council Give-and-Take | 181 | S.W. Regional Hospital Pharmacists | 189 |
| A New Era for Lepers | 181 | Topical Reflections | 169 |
| More about Cortisone | 182 | Trade Marks | 196 |
| Fifty Years Ago | 191 | Trade Notes | 172 |
| Fox Talbot—Pioneer of Photography | 183 | Trade Report | 192 |
| Hormones of the B.P. | 176 | Uniformity in Drug Tests | 188 |
| Irish News | 168 | Wills | 174 |
| Legal Reports | 171 | | |


# NEWS OF THE WEEK

**W.H.O. and International Pharmaceu-al Federation.**—The World Health Or-nisation is to establish official relations th the International Pharmaceutical deration and with the International ague against Rheumatism.

**Surgical Instrument Manufacturers.**—At annual meeting of the Federation of rgical Instrument Manufacturers in Lon-n on January 25 the following were cted:—*President,* Mr. E. W. Philpott; *ce-president,* Mr. R. Allen; *Chairman,* r. H. Burrows; *Vice-chairman,* Mr. S. untz; *Treasurer,* Mr. G. Rimmer.

**International Photographic Exhibition.** The fifteenth Kodak international salon photography, an exhibition of photo-aphs open to employees of the Kodak ganisation throughout the world, was ld at the works of Kodak, Ltd., Harrow, iddlesex, recently. There were over 450 tries, made up of monochrome prints d colour transparencies.

**Sesquicentenary Celebrations.**—An ex-ibition and celebrations are to be held at Lacock Abbey, nr. Chippenham, Wilts, on February 11-12, to commemorate the 150th anniversary of the birth of William Henry Fox Talbot, a pioneer of photography (see also p. 183). Representatives of organisations in the photographic trade are to be among those attending.

**U.S. Cosmetic Firm for Britain.**—The Revlon Production Corporation of America plans to spend at least $2,000,000 abroad over the next three years to expand its foreign business. A factory in Britain is to start operating in April. Additional installations will be completed in Argentina and France later in 1950. A new Revlon factory was recently opened in Brazil.

**"Special" Drug List Additions.** — Following representations made by the British Medical Association, the Ministry of Health has decided to include in the list of drugs, appliances and reagents for the supply of which doctors receive a payment over and above their capitation fee, all sulphonamide drugs, quick-drying plaster-of-Paris bandages, and nitrous oxide.

**Unofficial Prescription Forms to Go.**—After March 1, only N.H.S. prescriptions written on the appropriate official form should be accepted for dispensing under the National Health Service Act. After April 1, prescriptions written on other forms will not be accepted by the pricing offices. E.C.10's of the Glasgow Executive Council stamped "Shipping Federation Medical Officer" should now be accepted.

**Key Industry Duty Exemptions.**—The Treasury have made an Order (S.I., 1950, No. 170) exempting the following articles from Key Industry Duty for the period February 9 to June 30:—Isobutyl alcohol; tertbutyl alcohol; cocaine hydrochloride; cyclohexanol; decahydronaphthalene (a hydronaphthalene); diethyl *p*-nitrophenyl thiophosphate (an ethyl ester); methylcyclohexanol; methylcyclohexanone; methylene dichloride.

**Royal Visit.**—Princess Elizabeth visited Crawley, Sussex, on January 25 to open a road (Royal Manor) leading to the new Crawley development area. During the proceedings Mr. H. C. H. Graves, chairman of Vitamins, Ltd., whose factory will be situated in the new road, and other executives of the company were presented to Her Royal Highness (see p. 179). The company is to produce at Crawley its pharmaceutical preparations; a new research station is being completed at Walton Heath, Surrey.

**Standardisation of Equipment.**—An Engineering Equipment Users' Association, formed by five British companies to exchange information on the standardisation of engineering materials and equipment used by the members in common, has been established by Anglo-Iranian Oil Co., Ltd., Courtaulds, Ltd., Lever Brothers and Unilever, Ltd., and the Shell group of companies. The secretary is Brigadier L. F. S. Dawes and the offices are at 20 Grosvenor Gardens, London, S.W.1.

**Details of Atomisers Sought.** — The Ministry of Health is considering the possibility of including specifications in the Drug Tariff for hand-operated atomisers ordered on Form E.C.10, and invites manufacturers to submit the following particulars:—Price; construction and materials; type of medicament suitable for use in each; and any further relevant details. Interested manufacturers who may not have had the notice should also submit particulars as listed, quoting reference 3D(2)94255/5/15.

**Food Conference.** — A conference e titled "The World's Food and Britain Needs," organised by the Association Scientific Workers, is to be held at S Pancras Town Hall, London, on March and 5. Speakers will include Lord Boy Orr, F.R.S., and Dr. Julian Huxley, F.R. Interested organisations are invited to ser delegates. Applications for credentia should be made to the Secretary of th Association, 15 Half Moon Street, Lo don, W.1. The delegation fee is 10s.

**Leprosy Workers Visit Britain.**—Tw Brazilian leprosy specialists, Dr. L. Souza Lima (chairman of the therapeut controls committee of the Internation Leprosy Association) and Dr. A. C. Mau are visiting Britain for discussions, partic larly on the future application in Brazil tetrasodium 4 : 4′ - bis - (γ-phenylpropy amino)-diphenylsulphone-α : γ : α′ : γ′-tetr sulphone (Sulphetrone). They met mer bers of the Press at a reception held at th Latin-American Centre, London, on Jan ary 30. Also present were Dr. Gordon Ry (medical secretary, British Empire Lepro Relief Association), and Dr. G. Brownl (Burroughs Wellcome & Co.), one of th original workers on Sulphetrone.

**Gelatin and Glue Research.**—The fir annual report of the British Gelatine an Glue Research Association recently pul lished states that fifteen firms have join the Association as full members, represen ing about 45 per cent. of the industr The regulations provide for three types associate membership:—(i) University r search staffs and others interested in th scientific aspect; (ii) manufacturers plant, equipment and chemicals for indu try; (iii) users. Arrangements have be made to take over premises (including la oratories) at 2 Dalmeny Avenue, Londo N.7. A quarterly bulletin and abstrac are to be issued.

**Licensing Concession on Returne Goods.**—The Board of Trade has an nounced that arrangements have bee made with H.M. Customs and Excise f the entry without import licence of goo manufactured or produced in the Unite Kingdom which are returned from ove seas to the United Kingdom exporter i the same state as that in which they wer exported. The operation of this concessio does not entitle a trader to re-import, fo sale on the home market, goods which h was under obligation to export in the firs instance. If such goods cannot be sol

abroad the trader should seek release from his export obligations from the Board of Trade Department concerned before arranging for sale on the home market.

**Retail Census to Stand.**—The Prime Minister, in reply to a request from the National Chamber of Trade, has refused to sanction a further postponement of the census of distribution, due to be taken in 1951. In his letter he said that the Board of Trade would continue to do everything possible to meet the views of traders. The forms used in the pilot investigation had been greatly simplified, and it was the view of the advisory committee on the census that small traders, in particular, would find the necessary information to complete their forms in their trading accounts for the year. Such information would be confidential and used solely for the statistical survey.

**Commercial Travellers' Schools.**—First announced as £38,411, the total of the 1949 maintenance appeal of the Royal Commercial Travellers' Schools, given at the 104th anniversary festival dinner in London on January 27, was made up during the evening to £40,000. Successive contributions were made by Mrs. Leslie Gamage—to £38,500, Mr. Leslie Gamage, M.C., F.C.I.S. (chairman of appeal)—to £39,000, and the Hon. Claude Hope-Morley (treasurer of the schools)—to £40,000. Guest of honour at the dinner was Air Chief Marshal Sir Philip Joubert, K.C.B., C.M.G., D.S.O. Mr. J. Freeman Dunn (schools chairman) announced that a falling off in the inflow of students had been arrested, and the present tendency augured well for filling the school to capacity. A rebuilding scheme was being put forward.

**New Colonial Research Service.**—Formation of a new service binding together the scattered research workers of the Colonial Empire was announced on January 30 by Mr. David Rees-Williams, Parliamentary Under-Secretary of State for the Colonies. Mobility and fluidity of research personnel will be the keynote of the service. A research worker in one of the Colonies will be able to undertake, for example, work at one of the universities or scientific institutions in this country; and conversely, scientists from this country will be able to undertake research in the Colonies. All such work will count as one continuous period of pensionable service. This interchange of research workers should be of great mutual benefit. Salary scales (with the exception of those for medical research officers) will be those already existing in the United Kingdom Scientific Civil Service, with substantial overseas allowances in addition. Full details appear in a pamphlet "Appointments in His Majesty's Colonial Research Service," copies of which can be obtained free from the Colonial Office. Inquiries should be addressed to the Under-Secretary of State, Research Department, Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, who will give full details.



**Cornwall Chemists' Dinner.** — A dinner was held in Penzance recently at which members of the staff of A. Opie & Co., Ltd., met under the chairmanship of Mr. A. T. Opie, M.P.S. (managing director). The toast of the firm was proposed by Mr. L. Tonkin, M.P.S., and the staff's health by Mr. B. I. Opie, M.P.S. Responses were given by the chairman and Mr. R. C. Oates, M.P.S. Mr. A. T. Opie, who has had forty-three years' service with the company is seen in the centre of the photograph.

## LOCAL NEWS

**Protest at N.H.S. Payment Delays.**—The Executive Committee for Banff, Moray and Nairn is protesting to the Department of Health against the delays in payment of the money outstanding to chemists in that area.

**Glasgow Conference Committee.**—The first meeting of the local organisation committee of the British Pharmaceutical Conference, 1950, was held in Glasgow on February 3 (convener, Mr. W. C. Carmichael) when various business for the forthcoming conference in September was delegated.

**Pharmacies in Housing Scheme.**—That chemists should be given a high priority in the allocation of shopping sites in housing schemes was urged by the Countess of Elgin at a meeting of the Fife Executive Council in Kirkcaldy on January 30 and the decision was taken to approach the County Council on the matter.

**Manufacturer's Staff Dinner and Dance.**—The annual dinner and dance of Smith Kendon, Ltd. (formerly Smith & Co.) was held at Stockwell, London, on January 13 when about 100 members of the staff and friends, together with the directors, Messrs. Kenneth and Donald Smith, attended. The toast of "The Firm" was proposed by Mr. H. Lucas (works manager), and responded to by Mr. K. S. M. Smith.

**Sunderland Chemist Reprimanded.**—Sunderland Executive Council approved recently a recommendation of its Pharmaceutical Service Committee that £2 2s. should be withheld from the remuneration of a chemist whose test sample of mist. pot. brom. et nuc. vom. showed a 20 per cent. excess of potassium bromide, and that he should be reprimanded. The chemist admitted that the shop scales had been used for weighing the salt; the mixture had been made by an unqualified assistant and he had not checked the dispensing.

**Liverpool Pharmaceutical Education.**—Liverpool Further Education Committee has considered a report by the Director of Education recommending that provision should be made by the authority for pharmaceutical training to final examination standard at the College of Technology, following the receipt of an intimation from the principal of the Liverpool School of Pharmacy that he desired to retire at the end of the present session. The Committee agreed in principle to the provision of facilities for pharmaceutical education in Liverpool and to their inclusion in the estimates for 1950-51. It was also decided that the city engineer and surveyor should be asked to negotiate for the purchase of the School.

## IRISH NEWS

**Chemical Industry in N. Ireland.**—At a recent meeting of the Northern Ireland Production Council the chemical industry was reported as being amongst twenty-four new or expanded industrial undertakings in that territory.

**Ulster Chemists' Association.**—At the January meeting of the Associates' Committee of the Ulster Chemists' Association it was reported that a copy of the new salaries agreement for hospital pharmacists had been forwarded to the Northern Ireland Hospitals Authority. Applications for associateship from the following were approved:—Pharmaceutical chemist, Mr. Louis McCullagh; Assistants, Miss P. Black, Miss E. R. Thompson; Apprentice, Mr. David McMullan. It was decided to hold a dance in the Orpheus Restaurant, Belfast, on March 30.

## OVERSEAS NEWS

**British Pharmaceuticals for Portugal.**—Under new Anglo - Portuguese trade arrangements, Britain will export to Portugal chemical and pharmaceutical products, photographic and cinematographic equipment.

**Indian National Chemical Laboratories.**—The first of eleven national chemical laboratories was opened recently in Poona by Mr. J. Nehru, Indian Prime Minister. Science, said Mr. Nehru, was receiving "the highest consideration of the Government."

**Experts Discuss Addiction.**—The Expert Committee on Habit-Forming Drugs of the World Health Organisation met in Geneva from January 9-14 to advise the United Nations on problems connected with drug addiction, and the international control of new synthetic substances. The Committee considered resolutions taken by the Economic and Social Council on July 6, 1949, asking governments to put into effect the W.H.O. recommendations on the control of synthetic drugs of the pethidine and methadone type, and examine further the diacetylmorphine situation. Problems referred to it by the W.H.O. experts on mental health and the unification of pharmacopœias were also considered.

# TOPICAL REFLECTIONS

## A.B.C.M. Report

Your abstracts from the Report on the British Chemical Industry, prepared and published by the Association of British Chemical Manufacturers at the request of the President of the Board of Trade (pp. 48-56), show that this document is, as you remark, "of the greatest national importance." One wonders how the staff of the A.B.C.M. found time, with its routine work demanding the usual attention, to collate and to present in orderly sequence the immense amount of material entering into this authoritative survey. Taking as its point of departure the outbreak of World War I, the report follows the chequered history of the British chemical industry step by step till the present period of large-scale manufacture of antibiotics is reached. The Association dates from 1916, when the need for some such body to co-ordinate relations, internal and external, had become obvious. Well-directed work extended through the inter-war years rendered it certain that there was no major shortage of vital drugs when the catastrophe of September 1939 came upon us. The report passes in review the growth of the plastics industry, the rapid increase in the number of sulphonamides, the manufacture of penicillin, the discovery of Paludrine, and the synthesis of calciferol. It is a striking fact that "more than half of the 140 substances described in the 1948 B.P. are products of the laboratory and factory." The public spirit of the chemical industry is well illustrated by the remark that the industry welcomes the Monopolies and Restrictive Practices Act "because it will protect the public against undesirable restrictive practices by industry."

## Helpful Tone

Thanks to detailed replies to questions having been received from 272 firms, the writers of the report are clear that "the facts and figures given in this report accurately reflect the industry's activities." Even well-informed people sometimes overlook the fact that the chemical industry forms a unit of great complexity. When writing or speaking on industrial affairs they give the industry only a brief mention, reserving most of their observations for textiles, shipbuilding or some other department of the industrial world. It happens that I have just been reading most of "The Character of England" (1947), a series of essays, edited by Sir Ernest Barker, on the English *ethos*. Again I have been disappointed, in considering the thoughts of two authors on industry, by the scantiness of recognition accorded to the chemical industry. Admittedly the industry, as an organised entity, is of comparatively recent growth; but, for some reason or reasons, publicists are chary of acknowledging it. In all respects, and not least in its regard for the welfare of its workers, it stands on a high level. Alike at evening classes and on playing fields the cultural and recreational activities of workers are encouraged. The chemical industry is a great and a healthy one.

## C.F. Has Visitors

More importance than would otherwise have been the case attaches to the fourteenth annual luncheon of the Chemists Federation (pp. 140-42). The speeches included a handsome admission by Dr. O. C. Carter, chairman of the British Medical Association's Proprietary Medicines Committee. "He now realised," he said, "that when the investigations were carried out by the B.M.A. committee on the advertising and sales of proprietary preparations, a mistake had been made in not inviting the C.F. to place its views on the subject before the committee, and he, personally, would welcome their co-operation in this way on any future occasions." Dr. Carter and another guest, Dr. S. W. Jeger, praised the C.F. code of standards. The formation, under another title, of the Chemists Federation was affected as recently as fifteen years ago; I may perhaps be pardoned for recalling the fact that it had to make its way at first amid a good deal of criticism. The original title was disliked by some—and, in fact, might have been more happily chosen; again, critics asked how sanctions were to be applied when rules were broken. However, the staff at Queen Square wrestled with these problems and overcame them. Commenting on this luncheon (p. 146), you suggest that the Federation should be given full representation on the Cohen Committee, now engaged in considering a closely allied aspect of the trade in proprietary medicines. There is, I suppose, no reason why it should not be given this representation except the traditional slowness of such committees to acknowledge that in any respect they fall short of perfection. The special function of the Federation gives it a claim to be regarded as an authority.

***Xrayser***

## NEW COMPANIES

J. Perry (Chemists), Ltd. (P.C.).—Capital £6,000. To carry on the business of wholesale or retail chemists, etc. First directors are to be appointed. R.O.: 63 Wellington Road, Leeds.

Courtin & Warner, Ltd. (P.C.).—Capital £50,000. To acquire the business of manufacturing chemists and chemical, essential oil and drug merchants carried on by Warner's Technical Services, Ltd. (under its former name of Courtin & Warner, Ltd.), Southover, Lewes, Sussex. Herbert G. Warner, Hubert L. Warner, Eric S. Courtin, John C. Attwood and Wentworth L. Rowland, directors.

Monsanto Chemicals of India, Ltd.—The formation of this new company was announced on February 7 by Mr. Edw. A. O'Neal, jun. (chairman and managing director of Monsanto Chemicals, Ltd.). The new company is owned jointly by Monsanto Chemicals, Ltd., and its American associate Monsanto Chemical Co. The directors are W. M. Rand (president, Monsanto Chemical Co.), Edw. A. O'Neal, jun., A. E. Blair, W. E. Daysh, B. K. Denton, J. W. Urban and Marshall E. Young. The registered offices are in Bombay. Messrs. W. E. Daysh and B. K. Denton are in charge of the Indian company's organisation in Bombay. Plans include the immediate establishment of a selling organisation in India and the eventual manufacture of products commanding a ready market and for which local raw materials can be obtained.

### Company News

Liebig's Extract of Meat Co., Ltd.—Consolidated net profit for the year ended August 31, 1949, amounted to £385,742, against £524,381. A final dividend of 7s. per £5 stock unit is recommended, making a total of 9s. for the year (the same).

Pest Control, Ltd.—Application has been made to the Capital Issues Committee for the issue at par of £300,000 of 5 per cent. secured stock, 1953-57, with a further £200,000 available to cover banking facilities. An offer is to be made to shareholders of 800,000 5s. ordinary shares at 7s. 6d. per share in the proportion of four new shares for every seven shares held.

Evans Medical Supplies, Ltd.—Mr. C. E. J. Sendall, M.P.S., and Mr. A. J. Jones, Ph.C., A.R.I.C., are to retire from the board of the company and will relinquish their executive offices after the annual meeting. Mr. C. W. Robins, M.P.S. (see also p. 171), is joining board later in 1950 as full-time pharmaceutical development director.

Savory & Moore, Ltd.—Net profit after taxation for the year to March 31, 19 amounted to £44,434, against £78,6 After payment of preference stock d dends (£17,482), the sum of £5,000 transferred to general reserve. As in previous year, the directors are not recommending payment of an ordinary divide £106,128 is carried forward agai £84,177 brought in.

Idris, Ltd.—Net profit for the y ended October 31, 1949 amounted £45,563 (against £28,830), after provid for depreciation and taxation. Divide of 10 per cent. are recommended on A and B ordinary shares, and of 5 cent. on founders' shares (the same); sum of £5,000 (£6,000) is transferred equalisation reserve, and £20,000 (nil) general reserve; nothing (£3,000) is transferred to stock reserve. A balance £24,656 is carried forward, compared w £12,343 brought in.

## BUSINESS CHANGES

Mr. S. Gordon Stevenson, Ph.C., been appointed manager of the fact which E. R. Squibb & Sons are open at Speke, Liverpool.

Mr. O. M. M. Chester, M.P.S., taken over the business at 160 Tuck Road, Bournemouth, formerly owned Mr. W. E. Glossop, M.P.S.; he will tr as the Tuckton Pharmacy.

T. J. Smith & Nephew, Ltd., h appointed Mr. R. H. Ferguson to succ Mr. F. G. Kemp as their retail represen tive for Scotland (excluding Wigto Kirkcudbright, Dumfries, Selkirk, R burgh) and also excluding Berwick.

Archway Laboratories, Ltd., requ their customers in Northern Ireland forward all communications to 182 Alb Road, London, N.16, since for the ti being they have no representative in t area.

Sharp & Dohme, Ltd., Hoddesd Herts, advise customers in Derbys, No Lincs and Leics that their representat in that area, Mr. Donald A. Go child, has resigned from the company. inquiries should be addressed to the co pany direct until further notice.

## PERSONALITIES

Mr. R. Foster has been elected president for 1950 of the Toronto Retil Pharmacists' Association.

Mr. F. Yeo-Thomas has been appointed the representative in Paris of the Federation of British Industries.

Mr. W. B. Bell (president of the American Cyanamid Co.) has been awarded the Chemical Industry Medal of the Society of Chemical Industry.

Mr. E. J. Holder, Ph.C., has been appointed an additional representative of Duncan, Flockhart & Co., on the Edinburgh Chamber of Commerce.

Mr. C. W. Robinson, M.P.S., has tendered his resignation as secretary of the Association of British Pharmaceutical Industry and has accepted an appointment in the industry (see p. 170).

Mr. Herbert Levinstein, M.Sc., Ph.D., M.I.Chem.E., F.R.I.C., has been elected President of the British Association of Chemists. He is a past-president and gold medallist of the Society of Chemical Industry.

Mr. Harold White, F.I.B.P., F.R.P.S., who contributes a commemorative article on William Henry Fox Talbot on page 183, is a member of the council of the Royal Photographic Society. He is compiling information about Talbot prior to writing a biography.

Dr. C. A. Keele has been accorded the title of reader in pharmacology and therapeutics, University of London, in respect of his post at the Middlesex Hospital Medical School. Dr. L. Margaret Kerly has been accorded the title of reader in biochemistry, University of London in respect of her post at University College.

Sir Henry Dale, O.M., left Britain on January 26 for a three months' lecture tour of New Zealand and Canada for the British Council (of which he is President). He will spend about a month, touring in the principal towns and universities in New Zealand, and on April 25 will fly to Canada, where he is to lecture for three weeks. His lecture subjects include "Chemical Transmission of Nerve Effects of Impulses"; "Histamine and the Antihistamines"; and "Chemotherapy, its Origin and Current Developments."

Dr. Raymond Gautier has retired from the post of assistant director-general of the World Health Organisation. Dr. Gautier was the chief of the biological standardisation section of the League of Nations Health Organisation, and has published works on biological standardisation that themselves are regarded as standards. After gaining his degree from the University of Basle, Switzerland, he worked in Geneva, Singapore, London, and Washington. He has accepted the post of research director for the International Children's Centre, Paris.

## LEGAL REPORTS

**Unlawful Possession.**—At Southampton, recently, John Ronald Jones, a ship's steward, was sent to prison for four months after pleading guilty to being in possession of 37.6 oz. of Indian hemp and concealing it with intent to avoid the import prohibition.

**Obstruction Outside Shop.**—A trader whose "unusual, unnecessary and unreasonable" way of using his shop window had led to a 40s. fine for obstruction unsuccessfully appealed recently against the magistrates' decision, given in June 1949. According to the case stated by the magistrates, the appellant had cleared the window so that a mannequin parade within the shop could be seen from outside. As a result a crowd gathered on the footway. The police spoke to the manager, who asked the onlookers to disperse. Eventually the parade was abandoned. The appeal was heard in the King's Bench Division by Lord Goddard, who said there was no reason to interfere with the magistrates' decision.

**Pharmacy Act Fine.**—At Bournemouth, recently, Lansdowne Pharmacy, Ltd., 96 Old Christchurch Road, and Lansdowne House, Christchurch Road, were fined £25, with £3 3s. costs, on a charge of selling tablets and syrup containing codeine while not authorised sellers of poisons and in containers not labelled with the address of the seller; and of making unauthorised use of the title "chemist." A woman agent of the Pharmaceutical Society visited the shop in Old Christchurch Road. A qualified chemist was present and she was supplied with tablets and syrup containing codeine. When an inspector went in, the chemist had left. At the Lansdowne shop the woman agent was again sold tablets containing codeine. On this occasion a qualified chemist was not there. There was, in fact, only one chemist available for the two shops.

# TRADE NOTES

**Press Advertising.**—Eucryl, Ltd., Southampton, offer free display material to link up with an extensive advertising campaign now in progress for Eucryl tooth powder, denture powder and dental plate fixative.

**Competition Closing Date.**—G. B. Kent & Sons, Ltd., 24 Old Bond Street, London, W.1, announce that the Kent-Cosby Allure perfume hairbrush competition, the first prize in which is a free trip to New York, closes on February 28.

**Iodine Bottle.**—M. J. Fecher, Ltd., 121 High Street, Slough, Bucks, draw chemists' attention to their Hollodrome iodine bottle, the features of which are that the rod mounting eliminates loose brushes and the plastic cap is completely isolated from the contents.

**Norwegian Cod-liver Oil.** — Southall Brothers & Barclay (1935), Ltd., Ruskin House, Oldbury Road, West Smethwick, Birmingham, 40, announce that their first post-war delivery of Norwegian cod-liver oil is now available to chemists in 4-oz. and 8-oz. bottles.

**Change of Distribution.**—Roussel Laboratories, Ltd., 4 Golden Square, London, W.1, announce that they are taking over the distribution of their own preparations from February 1. (In the past distribution has been through the Antigen Laboratories, Ltd.) [Corrected note].

**Dosage of a Proprietary.** — May & Baker, Ltd., Dagenham, Essex, point out that the usual adult dose of Garoin brand compound phenytoin and phenobarbitone tablets is one or two tablets thrice daily, and not as stated in a previous notice circulated by the company.

**Price Policy Decision.**—Herts Pharmaceuticals, Ltd., Welwyn Garden City, Herts, state that they are not reducing on March 1 the price of Nivea creme, which is only slightly above the 1939 levels despite higher manufacturing costs due to increases in wages, raw materials, etc.

**Heater Control Unit.**—A simple switch and fuse unit has been introduced by the General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, to facilitate the wiring and control of the company's 3-kilowatt heater, which is designed primarily for the heating of offices, small showrooms, etc.

**Lyons Fair.**—The Lyons International Fair, April 15-24, will this year include a buyers' club for overseas visitors. Manufacturers who wish to receive (in due course) an overseas buyers' invitation should apply to the London representative of the Fair: Robert Brandon & Partners Ltd., 45 Dover Street, London, W.1.

**Swimming Cap in Eight Colours.**—W. W. Haffenden, Ltd., Richborough Rubber Works, Sandwich, Kent, have introduced a new Seal india-rubber swimming cap which is available in two sizes and eight colours. The cap, which has an embossed pattern, is fitted with an inner flange for increased protection of the hair.

**Improved Toilet Rolls.**—Kalis Paper Co., 341 Commercial Road, London, E., announce on another page the introduction of a larger and improved crepe paper toilet roll at a popular price.—Velvet Crepe Paper Co., Ltd., Alperton, Middlesex, are introducing on March 1 a new medicated fully wrapped and sealed Velvet toilet roll; they also announce an improved pack for Velvet handkerchief tissues, details of which are given on another page.

**Price Changes.**—Evans Medical Supplies, Ltd., Speke, Liverpool 19, state that, in consequence of increased costs of materials, the prices of Cascaromat will be increased on January 23.—Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, announce on another page a considerable reduction in the price of Tattoo nail lacquer. The reduced trade price is in operation immediately; the public reduction to the public takes effect on March 15.

**Electric Hair Dryer.**—Pifco, Ltd., Watling Street, Manchester, 4, have introduced the Pifco hair dryer, for which is claimed the advantages of an easy grip handle with switch control, "flow" streamlined contours, lustrous ivory plastic material," and a motor that is universal for alternating or direct currents. The overall dimensions of the dryer, which operates on any voltage in the 200/2 range, are 7 x 8½ x 3½ in. A model is also available for 100/120-volt mains.

**Now Tax-free.**—Pharmaceutical Laboratories Geigy, Ltd., National Building, Parsonage, Manchester, 3, state that, subsequent to the going to Press of the announcement on another page, they have been notified by the Commissioners of Customs and Excise that Sedestrol has been exempted from purchase tax. The pri

herefore become: 25 tablets, 16s. per oz., retail 2s.; 100 tablets, 48s. per doz., etail 6s.; 1,000 tablets, 240s. per doz., etail 30s.

**Bonus Offers.**—INTERNATIONAL CHEMIAL CO., LTD., Chenies Street, London, W.C.1, give details on another page of £10 onus parcels of the company's proprietary pecialities. — EDWARDS HARLENE, LTD., 8 Gough Street, London, W.C.1, invite hemists to write for details of a display ffer entitling chemists to discounts of up o 10 per cent. on Harlene products; an xtensive advertising campaign is now eing lauched.—A bonus offer of thirteen o the dozen on pellets and pastilles issued y A. L. SIMPKIN & CO., LTD., Sheffield, loses on February 28.

**Discontinued Packs.**—BRITISH CHEMIALS & BIOLOGICALS, LTD., 43 Regent treet, Loughborough, Leics, state that ney have discontinued the 50-ml size of uralgicin (Benger), though wholesalers may ill have small stocks. In future the only acking supplied will be the 12½-ml size, hich has been found sufficient for one ries of treatments. The smaller size oviates possibilities of reduced therapeutic fficiency due to dispensing the preparation a bottle that is not perfectly dry.—ARKE, DAVIS & CO., Staines Road, ounslow, Middlesex, in a price-list mendment sheet issued on January 31, ve details of a number of preparations at have been discontinued. They also nnounce that Arecoline hydrobromide ypodermic tablets (veterinary), gr. ½ .H.T. 525) are now exempt from purhase tax.

**Technical Films.**—A new film produced the Wellcome Film Unit outlines the story, function and manufacture of inlin. The film (16-mm. black-and-white, ith spoken commentary, running time 22 inutes approx.) is intended primarily for owing to members of the medical and harmaceutical professions The physiologil function of insulin is demonstrated by imated diagrams. The Unit has also mpleted, with the co-operation of the epartment of physiology, St. Bartholoew's Hospital Medical College, a 16-mm. lent film in colour (running time, 8 minres approx.), demonstrating the hydroynamics of blood flow in the basiliar tery under varying conditions. Applicaons for copies of these films should be ade to the Wellcome Film Unit, 183 uston Road, London, N.W.1.




**Perfumed Colognes.**—Goya, Ltd., 161 New Bond Street, London, W.1, have introduced a series of perfumed Colognes to match their range of perfumes. The products are not intended as a substitute for perfume, but for use with perfume. The idea is rather new to British women, but the makers are confident that it will appeal to them. An advertising campaign starting this month builds up to a peak between April and June. The series includes Decision, Vibration, Gardenia and No. 5.

## Proprietary Articles Trade Association

**Additions to Protected List (Part 1).**—*Wigglesworth, Ltd.,* Gould's liver salts (small size), 8s. 3d. doz., tax 33⅓ per cent., doz., 7s. 3d., inclusive retail price 1s. 2d.

**Deletions from List (Part 1).**—*Bak Laboratories,* Bak brand strong rub.

*Pharman (Birtley), Ltd.,* Tuss children's cherry cough syrup; Magaffin; Pharman's medicated dusting-powder.

**Deletions from Protected List (Part 2).**—*Clark's Glycola Co., Ltd.,* Glycola; Glycola foot cream.

**Additions to Protected List (Part 2).**—*Addis, Ltd.,* Addis beauty brush, 82s. 6d. doz., tax 33⅓ per cent., i.r.p. 12s. 6d. Addis Grippy nail-brush, 25s. 10d. doz., tax 33⅓ per cent., i.r.p. 3s. 11d.

*Evan Williams Co., Ltd.,* From January 2, retailers have received trade discount of 5 per cent. on orders of £4 minimum value.

*Wright, Layman & Umney, Ltd.,* Wright's coal-tar shaving-stick refills, 9s. 7d. doz., tax 33⅓ per cent., i.r.p. 1s. 4d. Standard wholesale price of 9s. 7d. per doz. applies to all orders executed since January 1. Retail price of 1s. 4d., including tax, operates to public on and after February 1.

## BIRTH

PAYN.—At Selsdon, Surrey, on January 29, 1950, Peggy, the wife of David W. Payn (assistant secretary, Proprietary Articles Trade Association), of a son (Michael David).

## MARRIAGES

GREEN—BOYES. — On January 11, Richard Green, M.P.S.N.I., Aghalee, co. Antrim, Northern Ireland, to Mabel Georgina Boyes, Rock House, Megaberry, co. Down.

HUME—NICOLSON.—At St. Andrew's Church, Juniper Green, Edinburgh, on January 28, James Bell Hume, 53 Glendevon Place, Edinburgh, to Elizabeth Margaret, elder daughter of Mr. A. Nicolson (managing director, Pinkerton, Gibson & Co., Ltd., 13 Queen Street, Edinburgh).

## DEATHS

BOOTH.—On December 28, 1949, Mr. Charles Henry Booth, M.P.S. (Plaister & Co., chemists, 172 Old Brompton Road, London, S.W.5) whose address in the register was 48 Broadway Market, London Fields, London, E.8. Mr. Booth qualified in 1890.

COPE.—On January 22, Mr. Frank Youl Cope, M.P.S., 16 Harrogate Road, Ripon. Mr. Cope qualified in 1902.

COULTON.—On January 23, Mr. Arthur William Coulton, 174 Commercial Road, Stepney, London, E.1. Mr. Coulton qualified as a chemist and druggist in 1898 and retired in 1946.

EDGAR.—Recently, Mr. Reginald John Edgar, M.P.S., Station Road, Market Harborough, Leics. Mr. Edgar qualified in 1908.

GOULDBOURN.—On June 17, 1949, Mr. John Banks Gouldbourn, M.P.S., 1 Port Hill Gardens, Shrewsbury, Salop. Mr. Gouldbourn qualified in 1900.

LADDIMAN.—On November 16, 1949, Mr. Ernest John Laddiman, Roselea, Wheat Leasowes, Wellington, Salop. Mr. Laddiman qualified in 1903.

LOBLEY.—On January 16, Mr. A. Glynne Lobley, managing director of Birlec, Ltd., industrial equipment manufacturers, Erdington, Birmingham.

MARTIN. — At 4 Blacket Place, Edinburgh, suddenly, on January 25, Mr. Alexander Clark Martin, M.P.S. Mr. Martin was in business at 132 Nicolson Stre prior to retiring some years ago.

NAIRN.—At an infirmary in Glasgow, January 12, Mrs. Johan Walker Nair widow of Mr. James Nairn, M.P.S., Bel hill, nr. Glasgow.

ROUGH.—On January 24, Mr. Alfr James Rough, M.P.S., 9 Dolcoath Roa Camborne, Cornwall. Mr. Rough qualifi in 1899.

SHEPHERD.—On February 6, sudden after a short illness, at his son's residen 41 Litherland Road, Bootle, Mr. Herb William Shepherd, aged seventy-eight. M Shepherd qualified as a chemist and dru gist in 1893. He was formerly in busin successively at Burnley, Harpenden, Bra ford and Bootle.

SIMMONDS.—Suddenly, at Nevill Ho Fletsand Road, Wilmslow, Ches, on Jan ary 28, Mrs. Florence Simmonds, widow the late Mr. E. H. Simmonds, M.P. Worsley, Walkden, Lancs.

SPENCER.—On January 23, Mr. Herb Edgar Spencer, 4 Queen's Court, Florer Road, Boscombe, Hants, formerly of Go ers Green, London. Mr. Spencer qualifi as a chemist and druggist in 1899. retired in 1940.

WALKER.—At his home, 79 King Stre Castle Douglas, Kircudbrights, on Jan ary 30, Mr. Frederick Walker, M.P. aged eighty-one. Mr. Walker commenc his apprenticeship in 1882 at Newt Stewart and qualified in 1890. He est lished the business at Castle Douglas January 1, 1893. He served for ma years on the local town council, to wh he was elected in the early part of century.

## WILLS

RT. HON. SIR S. HARRINGTON, Aragl Cobh, co. Cork, chairman of Cork Che cal & Drug Co., Ltd., left estate in E land valued at £2,056.

MR. J. B. GOULDBURN, M.P.S., Hillsbo Port Hill Gardens, Shrewsbury, £25,259 (£25,102 net).

MR. G. F. GODSON, M.P.S., F.I.C.A., Lincoln Street, Old Basford, Notts, in bu ness there for nearly fifty years, £16,334 (£14,911 net).

MR. C. H. OATES, retired pharmac Edgeworth, 200 Coventry Road, Exh nr. Coventry, formerly of Bedworth, W wicks, left £12,622 (£12,593 net).

# BRANCH AND ASSOCIATION MEETINGS

**Plymouth Film Show.** — The film Peptic Ulcers" was shown to members the Plymouth Branch of the Pharmaceu-cal Society at a scientific meeting on Jan-ry 19. Mr. W. H. Lamb, who presented e film, was introduced by the chairman Mr. A. G. Madge). A vote of thanks was oposed by Mr. G. Gibbs and seconded by r. A. E. Clark (student associate).

**Talk on Rheumatism.**—At the February eeting of the Harrogate Branch of the armaceutical Society, Dr. T. G. Reah oke on "Rheumatic Diseases." Although eumatism was only fourteenth on the list r causes of death, Dr. Reah emphas-d the loss it caused to industry in man-wer and money. Slides were shown of rious bone outgrowths of osteo-arthritis d to illustrate the Smith-Petersen opera-n, where the hip joint was exposed, eaned and a metal cup inserted, causing remarkable improvement in mobility and duction of pain. Speaking on rheuma-d arthritis, Dr. Reah surveyed old and w methods of treatment, leading up to rtisone. The results of treatment with e drug were often remarkable but several pleasant side-effects had been noticed, example obesity, high blood pressure, ne and failure of skin wounds to heal.

**Harrow Branch Meeting.**—At the Janu-y meeting of the Harrow Branch of the armaceutical Society, Miss Ursula Shel-, M.D., gave a lecture entitled "Child-'s Ailments, with Special Reference to ugs and Therapy." Dr. Shelley outlined progress of medicine and emphasised modern methods of protection afforded infants by immunisation and adequate ake of vitamins. Discussing treatment th the sulphonamide drugs and penicillin, stressed the need for adequate dosage d for administration at regular inter-s. Details were given of the dosage of ious drugs employed in the treatment the common disorders as well as the re serious ailments requiring treatment hospital. A vote of thanks proposed by ss G. May was seconded by Miss M. C. ip.

**Glasgow Association Expands.**—At a eting of the Glasgow Pharmacists' Asso-tion on February 2, Mr. R. F. McKay, o presided, said that, since the inaugural eting six weeks previously, it had been cided to extend the scope of the Associa-n to embrace all pharmacists in Glasgow. presented the draft constitution, which was agreed. The original committee, he said, was to be increased by seven members and the following were nominated to represent branches of the profession other than contractors:—Mr. Holm (hospital), Mr. Wood (wholesale), Mr. Carmichael (representative), Mr. McAuley (employee), Mr. Robertson (representative). It was decided to co-opt members at a later date for the remaining vacancies. Messrs. Drummond and Paton were appointed auditors. After discussion, it was agreed to appoint a sub-committee to go into the question of establishing a clearing house for information on where rarely used drugs were lying. Other matters to be investigated were a combined system of printed labels and the formation of a bureau for relief staff.

**N.P.U. Secretary at Gateshead.**—At a meeting of the Northumberland and Gateshead Branch of the National Pharmaceutical Union on January 18, Mr. G. H. M. Graham introduced Mr. H. Noble (secretary, N.P.U.) as a Newcastle-born pharmacist and former apprentice of Mr. Hunter, who was present at the meeting. Mr. Noble spoke on "Problems and Prospects in 1950." He said that the Ministry of Health has pressed the N.H.S. negotiating committee to agree to doctors being encouraged to stock bulk drugs, tablets, etc., for surgical use. The obvious intention was to bring about, by that means, a reduction in the number of scripts for small quantities of drugs. The oncost allowance on scripts for proprietaries would also, in the near future, be subject to question by the Ministry, as it had been discovered that, in some circumstances, chemists were being paid more on an E.C.10 form than the proprietary article would sell for by retail. Pricing bureaux were now taking six weeks to price each month's scripts. A check for June 1949 had shown the average value per script to be 34.92d., excluding bottle allowance, and the average cost to the Ministry as 35.09d., representing an overpayment to contractors of 0.17d. The average dispensing fee had fallen from 12.4d. to slightly below 12d. Mr. Noble also commented on the serious position that would arise if the Board of Trade were successful in its endeavours to bring about the liquidation of all organised price control. In the discussion, Mr. Kent urged that permission should be sought for contractors to be allowed to break bulk in supplying dressings.

# HORMONES OF THE BRITISH PHARMACOPŒI

## Abstract of an address by Mr. R. P. Edkins, B.Pharm., Ph.D A.R.I.C., at an evening meeting of the Scottish Department of t Pharmaceutical Society in Edinburgh recently.

The monographs I wish to consider describe substances that may be divided into three main classes: Steroid and natural hormones and synthetic œstrogens. The first sex hormone was isolated from human urine in 1929. It possessed the power of producing œstrus in immature female rats. The substance was shown to be a ketone and the name œstrone (suggested by a group of English investigators) was accepted by a League of Nations conference in London in 1935. The parent hydrocarbon thus becomes œstrane.

### Steroid Hormones

Steroid hormones are so-called because all of them contain the cyclopentano-perhydro-phenanthrene skeleton. A satisfactory total synthesis of œstrone that is also commercially practicable has not yet been achieved. At the present time the compound is prepared commercially by extraction from the urine of pregnant mares. The total urine is first submitted to hydrolysis to liberate the œstrogens as free phenols, followed by extraction with an organic solvent. The œstrogenic mixture is then fractionally crystallised.

Preparation of œstradiol benzoate and œstradiol dipropionate is fairly straightforward. The first stage in either preparation is the reduction of the 17-keto group in œstrone to the corresponding secondary alcohol, this forms a mixture of $\alpha$ and $\beta$ œstradiols; the former (the Pharmacopœial substance)—is separated by extracting the mixture with ether, in which the $\beta$-epimer is much more soluble. Another method of separation, patented in America, takes advantage of the fact that the $\alpha$-epimer forms an insoluble complex with urea dissolved in methanol, while the $\beta$-epimer does not.

Œstradiol monobenzoate is prepared from œstradiol by dissolving it in sodium hydroxide solution and adding benzoyl chloride at room temperature. In those mild conditions only the phenol group in the 3-position is benzoylated. Esterification of the secondary alcoholic hydroxyl group is more difficult, and œstradiol dipropionate is, therefore, prepared by boiling œstradiol with propionic anhydride and sodium propionate.

The remaining steroid hormones dif from the œstrogenic hormones in havi an angular methyl group at position and having only one unsaturated linka between carbon atoms 3 and 4. To synthesis of those steroids also prese many problems, and the compounds not in general capable of being isolated any quantity from animal tissue. Prog terone was isolated initially from t corpora lutea of sow ovaries in 1934 (abo 6.25 kilos, representing the ovaries fr 50,000 sows, yielding 12.5 mgm. p progesterone). A number of natura occurring sterols in the plant and anir kingdoms can be used as starting materi for partial synthesis of all. Cholesterol now usually used because it is fairly read available in the quantities needed. It oxidised by chromic acid in acetic a solution to remove the side chain on (the $C_3$ hydroxyl group must be protec by acetylation, and the double bond position 4-5 by the addition of bromic Three oxidation products may be isola from the reaction; two are ketonic a are isolated as the semi-carbazones. T ketone isolated in greatest amount is acetate of dehydroisoandrosterone and t is the starting material for the preparat of testosterone, methyl testosterone a ethisterone, while the other ketone (pr nenolone acetate) yields progesterone.

### Synthesis of Testosterone

The synthesis of testosterone propion is fairly long. The stages are:—Dehyd androsterone acetate is reduced to the c by means of hydrogen in the presence o catalyst, the ketone group in position being reduced to the secondary alcol That is benzoylated with benzoyl chlor to give androstenediol-3-acetate-17-ben ate, which is subjected to partial hydr sis with sodium hydroxide. The acet group on $C_3$ is more readily removed th the benzoyl group on $C_{17}$ and, by this p cedure the acetate group is removed wl the benzoate group remains unattack The resulting androstenediol-17-benzo is then oxidised (to convert the hydro group on $C_3$ to a ketone) by alumini isopropoxide in the presence of a la

excess of cyclohexanone (known as Oppenauer oxidation) when the unsaturated linkage moves to the 3-4 position to co-ordinate with oxygen to form testosterone benzoate. This is saponified to free testosterone and propionated to produce testosterone propionate.

To produce methyl testosterone, dehydroandrosterone acetate is treated with methyl magnesium iodide in ethereal solution (Grignard reaction). The 17-methyl androstenediol so formed is transformed to 17-methyl testosterone by oxidation. The synthesis of ethisterone from dehydroandrosterone is also a matter of only two stages. Dehydroandrosterone acetate is added to an alcoholic solution of potassium acetylide and acetylene passed in until no further adsorption occurs. The reaction mixture is decomposed with water and the potassium hydroxide formed hydrolyses the 3-acetyl group, with the formation of 17-ethinyl androstenediol. That material is subjected to Oppenauer oxidation to oxidise the 3-hydroxy to the 3-keto group and the product is ethisterone.

Pregnenolone acetate is isolated in low yield from the products of cholesterol oxidation, but it is nevertheless a valuable by-product. The 3-acetyl group is hydrolysed to produce the free carbinol, followed by Oppenauer oxidation, but the pregnenolone acetate used must be pure, and attaining purity is difficult. Any dehydroandrosterone acetate present as an impurity is also hydrolysed to free dehydroandrosterone and oxidised to androstenedione; should this occur it is almost impossible to separate the resulting mixture.

Progesterone may also be isolated in fair yield from natural sources, namely corpora lutea. A method of manufacture largely used under patent in America utilises certain of the sapogenins, in particular diosgenin isolated from the rhizome of the Mexican *Dioscorea*, which is related to sarsasapogenin from *Sarsaparilla*.

## Gonadotrophic Hormones

Chorionic and serum gonadotrophin both occur naturally in the animal organism. Their chemical nature has not yet been completely determined, though it is known that they are proteins in association with carbohydrates, and recently the gonadotrophin from pregnancy urine has been obtained in a crystalline form. Both equine serum and human pregnancy urine are used as sources of gonadotrophin, the former yielding serum and the latter chorionic gonadotrophins. From both sources the gonadotrophin is obtained commercially in association with a considerable quantity of other inert protein matter. Since no chemical method of assay has yet been found practicable, an international standard for each of the gonadotrophins has been adopted.

### Method of Isolation

The isolation of chorionic gonadotrophin from pregnancy urine is a partial fractionation of the protein bodies present. In general, the urine is adjusted to about *p*H 6 and an equal volume of alcohol or acetone added. The precipitate produced consists of inert matter and is discarded. The *p*H of the solution is adjusted to 5, and a further 4 volumes of alcohol added. On standing for some time the precipitate coagulates, and after filtering is washed free from water with alcohol and the ether and dried. The material obtained has a low activity and is frequently not water-soluble, and it is usually necessary to repeat the process. A better method of extraction utilises the capacity of chorionic gonadotrophin to adsorb on other substances, such as cholesterol, stearic acid, benzoic acid or kaolin. Any of the first three may be precipitated in the urine treated, and, after separation by filtration, the adsorbent is dissolved in acetone, leaving the relatively pure gonadotrophin undissolved and in a form in which it may be filtered off. If kaolin is used it is added to the urine with shaking; the kaolin is then washed with water and the hormone eluted by washing with ammonium hydroxide solution. Acetic acid is added to the solution until the *p*H reaches 8.5, when any precipitate of inert material is discarded, and then further acidified to *p*H 5.5. From that solution chorionic gonadotrophin is obtained by adding an excess of alcohol, which precipitates the gonadotrophin.

Serum gonadotrophin is isolated in a rather similar manner. Blood is drawn from pregnant mares preferably between the sixtieth and seventy-fifth day of pregnancy, sodium oxalate added, and allowed to stand overnight. The supernatant plasma is separated, the *p*H adjusted to 9, and an equal volume of alcohol added; an inert precipitate is formed which is removed by filtration. The concentration of alcohol in the filtrate is increased to 70 per cent. and the *p*H adjusted to 5 with acid, when the precipitate obtained contains the bulk of the gonadotrophic activity; not

being sufficiently pure for use at this stage, it is resuspended in water at *p*H 9 and an equal volume of alcohol added; serum gonadotrophin is soluble in 50 per cent. alcohol at that *p*H, but much inert matter is not, and that is removed by filtration; the concentration of alcohol in the filtrate is increased to 70 per cent. and the *p*H adjusted to 5, at which *p*H the gonadotrophin is least soluble. The precipitate produced is separated and dried, forming the B.P. product.

**Synthetic Œstrogens**

The third group of substances newly included in the Pharmacopœia covers the synthetic œstrogens: stilbœstrol, hexœstrol and dienœstrol.

There are a number of syntheses of stilbœstrol; in the original, anisaldehyde is used as the starting material, two molecules readily condensing to form anisoin, which is reduced to give deoxyanisoin. Ethyl groups are added to the molecule, yielding the carbinol, which may be dehydrated to the dimethyl ether, giving stilbœstrol on demethylation. Hydrogenation of B.P. stilbœstrol or its dimethyl ether gives a mixture of the *d*- and *l*- optical isomers of hexœstrol, neither of which is official hexœstrol as its œstrogenic activity is low. The official hexœstrol is obtained by reduction of cis-stilbœstrol or its dimethyl ether. The cis-dimethyl ether is a liquid and occurs as a by-product in the manufacture of stilbœstrol at the dehydration stage.

Dienœstrol is obtained from *p*-hydroxypropiophenone, two molecules condensing to the pinacol on reduction, and this on dehydration with acetic anhydride and acetyl chloride, followed by hydrolysis to remove the acetyl groups added by the treatment to the *p*-hydroxyl groups, gives dienœstrol.

No discussion of the œstrogens would be complete without mention of ethinyl œstradiol, which is closely related to the natural œstrogens. It is about ten times as active orally as stilbœstrol, and fifty times as active as œstradiol. It is prepared by the addition of acetylane to œstrone, precautions being taken during its manufacture and pharmaceutical handling to eliminate danger of systemic effects in the workers.

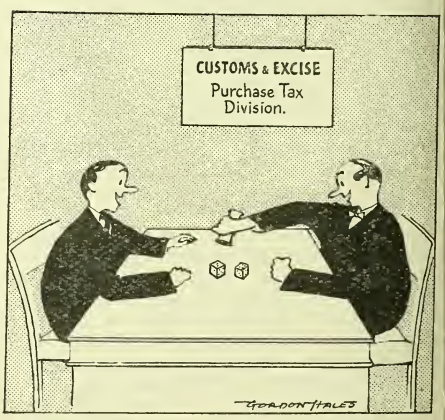
In general, the hormones are absorbed fairly rapidly from the site of injection and, when absorbed, are equally rapidly excreted. Numerous attempts have been made to present them in a way that decreases the rate of absorption. Pellets of the pure steroid hormone implanted in the subcutaneous tissue are now widely used where maintenance therapy is desired. The principle involved is physical, the rate of solution being dependent upon the particular hormone used and the surface area of the implant. The weight of the implant should be chosen, not only from a consideration of the dosage required, but also with regard to the length of time over which it is required to exert its activity. If an increase of dosage is required, it must be achieved by increasing the number of implants inserted, or by so altering the shape of the implant used that a greater surface area is available from which absorption can occur.

**Discussion**

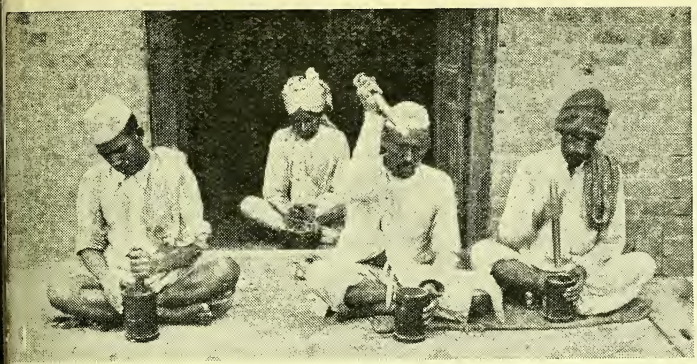
Replying to questions, Dr. Edkins said that it was true that the carcinogenic hydrocarbons were closely allied in structure to the steroid hormones, but so far there was no evidence to suggest any likelihood that they were carcinogenic in humans. He thought that certain hormones could be absorbed through the skin if they were presented in a reasonably absorbent ointment base, and tended to affect the locale on which the ointment was applied rather than the whole system. He had no information of the speed or extent to which they went through the system.

The Chairman (Mr. C. W. Macfarlane) said it was a privilege to convey to the lecturer the thanks of the meeting for his most interesting address.

## A TOSS-UP

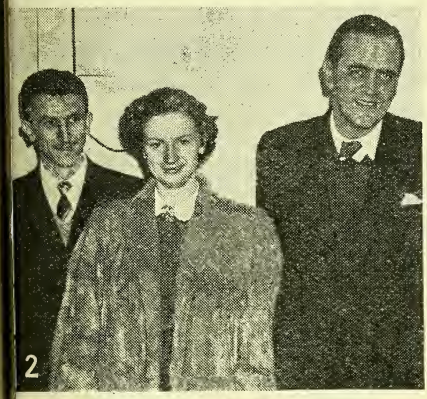



**"And if I get a double-six I'll take it off again."**



## NEWS IN PICTURES

1. A LESSON IN PHARMACY. Medical students at the Dayanand Anglo - Vedic College, Delhi, India.
2. MALARIOLOGISTS FROM BRAZIL. Dr. A. C. and Mrs. Mauri with Dr. L. de Souza Lima (chairman, therapeutic controls committee. International Leprosy Association) photographed in London (see p. 166).







3. DRUG FILM "STILL." A shot from the film "Birth of a Drug" (see p. 189).
4. SALES CONFERENCE. Representatives and senior executives present at dinner given by directors of T. J. Smith & Nephew, Ltd., during sales conference at Hull recently.
5. PRESENTED TO PRINCESS. Executives of Vitamins, Ltd., introduced to H.R.H. Princess Elizabeth at Crawley, Sussex, recently (see p. 166).





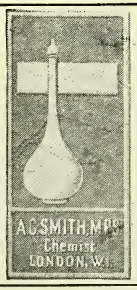

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VOL. CLIII FEBRUARY 11, 1950 No. 3651

## Council Give-and-Take

As will be seen from the report given on p. 185 of the proceedings of the Pharmaceutical Society's Council at its meeting on January 31/February 1, the scheme to substitute a three-year Qualifying course for the present two-year course is held in abeyance for at least a further two years. The president even went so far as to say that "possibly it never will be a three-year course."

However reluctantly the Committee must have announced its decision, and without necessarily concurring in the president's prophecy, most members of the Society will agree that—with conditions as they are—it would have been unwise to the point of disaster to attempt to establish the universal three-year course just now. The new syllabus is not yet ready (it is promised for next month); the "teething troubles" of the National Health Service have not lost their acuteness; and the shortage of pharmacists remains a grave problem. No risks ought to be taken over replacements of the normal month-by-month loss of pharmacists by death, change of occupation, etc., about which Mr. Linstead at Colwyn Bay recently (see *C. & D.*, February 4, p. 142) showed himself fairly optimistic—with, one hopes, a solid basis from inside knowledge. Nor should any irrevocable changes be made until the arrangements for the pharmaceutical services under N.H.S. are reasonably final, which they are unlikely to be so long as speculation continues as to the extent, status and speed of completion of health centres. Though predictions are dangerous, it seems reasonably safe to venture an opinion that 1952 will see a further postponement of the proposals — for similar reasons.

Another decision the Council must have taken with reluctance is the abandonment of the herbarium competition. One had the mild shock of witnessing Mr. H. M. Hirst (that indefatigable protagonist of pharmaceutical botany) supporting the Committee's recommendation, and of the Committee's chairman apparently more optimistic than Mr. Hirst that some way would be found of introducing a modern counterpart to the competition.

Mr. Reid and his fellow-members of the Organisation Committee appear to us to have taken too meekly the Home Office reasons (see p. 187) for giving only the registered address of a doctor disqualified from prescribing Dangerous Drugs. Mr. Melhuish was right to point out that the pharmacist should (a) be protected and (b) should do his duty—and, we would add, be accorded the means of doing it—so far as the law was concerned, and it is little wonder that Mr. Reid was "not entirely happy" about the position. Admitting the fairness of the attitude of the Home Office in not wishing to cause embarrassment to law-abiding practitioners, there is hardly a call for "sympathy" for the Department, especially when its attitude creates another sort of embarrassment to one's own colleagues. Surely it would be possible to avoid embarrassment to both professions by using some such form of words as "A. D. Dict, M.D., 14 Habit Row, Nuneaton, recently locum tenens at Illforth Garden City."

Let questioners keep as busy as they were at last week's Council meeting and members will soon begin to evince a reawakened interest in the proceedings.

## A New Era for the Leper

THERE are only about 300 leprosy sufferers in Britain. Perhaps for that reason the disease occupies less of the horizon of medical workers in this country than might be expected of a disease affecting three

million people in the British Empire alone and many more in other countries. Attention is at present focused on the problem by the presence in this country on a visit (see p. 166), of two leading workers from Brazil (a country that has achieved a foremost place in leprosy treatment) and by the publication by Lowe ("Lancet," January 28, p. 145) of encouraging results obtained in Nigeria from the use of an inexpensive and hitherto little-tried sulphone, diamino-diphenyl sulphone (D.A.D.P.S.).

It is hardly too much to say, as was said at a reception to the Brazilian workers, that a revolution has happened in the control of leprosy. Early scepticism about the sulphones (because "the road behind is strewn with broken bottles of discarded remedies") has been replaced by confidence in the value of compounds in the group. "Hardened leprologists" have been "almost in tears" at the results of a "modern miracle" which, they say, has yet gone largely unrecognised.

As we have pointed out on a previous occasion (*C. & D.*, 1947.I.721) one difficulty in the treatment of leprosy on the necessary scale has been lack of funds to meet the high cost of the drugs. For this reason Lowe's findings are encouraging. Rejecting the "accepted idea" that D.A.D.P.S. is too toxic for use, he has for example, treated with it fifty lepromatous cases (i.e., where the *Mycobacteria* are invading) for more than six months. None showed deterioration, 72 per cent. showed clinical, and 62 per cent. bacteriological improvement, and there were indications that the drug acted more quickly than more complex sulphones. To avoid toxic effects, treatment commenced with small, slowly increasing doses. The annual cost of treating one patient for a year with D.A.D.P.S. was 14s.—one twentieth of the cost of the more complex compounds. Sulphone treatment eliminates the need of hospital treatment and enables children to be protected chemotherapeutically instead of by isolation.

On the manufacturing side Britain is well in the forefront—a situation that is specially satisfactory as the sulphones are recognised dollar earners.

## More About Cortisone

DESPITE the scarcity of cortisone and the adrenocorticotrophic hormone (A.C.T.H.), observations have progressed, and British workers particularly will be indebted to Professor J. W. McNee, University of Glasgow ("British Medical Journal," January 14, p. 113) for summarising the present knowledge of the hormones in America. Sufficient is now known of cortisone for it to be realised that something new and fundamental in medicine has been discovered, with possibilities "far beyond the boundaries of the chronic rheumatic diseases in which cortisone's remarkable effects were first demonstrated." Bearing out the wisdom of earlier warnings the substances are already being noticed to have drawbacks. Cortisone may, for example, put the suprarenal cortex "to sleep" at least for some time. A.C.T.H. on the other hand, stimulates the natural production of cortisone by the suprarenal cortex, and its continued use might lead to hypertrophy and uncontrolled hypersecretion. A common side-effect that Professor McNee saw was a modified Cushing's syndrome characterised by "moon-face," acne, gain in weight, slight excessive hairiness in females, etc. Other workers have reported an apparent decrease in effectiveness of A.C.T.H. after initial success.

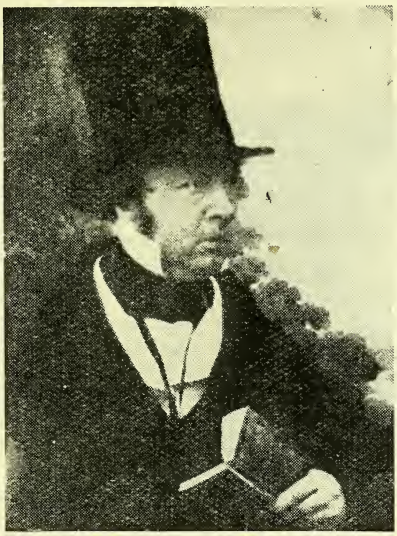
As to how cortisone and A.C.T.H. act indications suggest that cortisone has a controlling action on the so-called collagen and lymphoid tissues of the body. Many American physicians are already talking of "stress diseases," on the strength of a hypothesis put forward by workers in Montreal, Canada, that the body normally may respond to stresses with increased production of adreno-cortical hormones. With experiments on rats, Seyle (*ibid*, January 28) has shown that desoxocortisone, a "mineralosteroid" produces changes similar to collagen diseases in man, which respond favourably to treatment with cortisone or other "glucosteroids." U.S. chemists are "not excited" by botanical expeditions to discover starting points for the partial synthesis of cortisone, and are confident that a simpler analogue will be synthesised.

# FOX TALBOT, A PIONEER OF PHOTOGRAPHY

By Harold White, F.I.B.P., F.R.P.S.

## A brief biography commemorating the 150th anniversary of his birth

INTEREST in chemistry, combined with inability to draw in later life, induced William Henry Fox Talbot to devote a portion of his inventive mind to discoveries which laid the foundation of present-day photography. Fox Talbot, as he is usually known, was born at Melbury in Dorset in February 1800. His father died when the child was but six months old, and his early upbringing was left in the capable hands of his mother, Lady Elizabeth, eldest daughter of the second Earl of Ilchester. She was a woman rich in intellectual faculties, and forthright common sense, worthy and able to rear the genius who was suddenly committed to her sole care. A small diary gives a clue to the early years, and we find that Fox Talbot already had a recognisable linguistic ability and an inclination towards mathematics by the time he entered his first preparatory school at the age of eight years. Three years later, he was received into Dr. Butler's House at Harrow School, and it was at this time that his further interest in chemistry was born. It soon became an absorbing pursuit, all the more remarkable because it was not one of the subjects taught at that time.



Talbot, from one of his own photographs

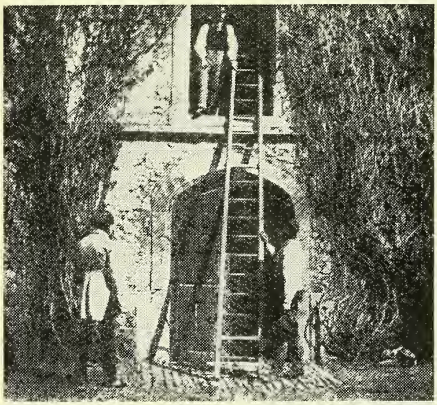
### Explosion at Home

In a letter to his mother, in May 1812, he says, "You can have no idea with what vigour I pursue my favourite science of chemistry here." At the same time he asks for a garret at home to be converted into a laboratory. His experiments apparently resulted in an explosion, and as a consequence, further chemical experiments were prohibited while he was at school, though it has been said that, through the kindness of a local blacksmith, his practical chemistry continued at the forge.

Before reaching the age of fourteen he was placed in the sixth form. So remarkable was his progress in learning that it was necessary for him to leave Harrow School two years later, for it was likely he would have become the Head Boy, and Dr. Butler felt this would have had an adverse effect in view of Talbot's youth. Two years were spent with private tutors, before he went to Cambridge University, from which he graduated at the age of twenty-one as twelfth wrangler, gaining the second of two Chancellor's medals, and winning the Porson prize. It is an indication of his scholastic mind that, to celebrate his twenty-first birthday, he erected a school at Lacock in Wiltshire. This beautiful village had been part of the estate which came to him upon the death of his father, but during his minority, the Abbey (which had been a family possession since just after the Dissolution), had been leased. The death of the occupant in 1827 enabled Fox Talbot to return to his ancestral home. Lady Elisabeth had married again, choosing Captain (afterwards Rear-Admiral) Charles Feilding as her second husband. Two daughters were born to her, and a great bond of affection existed between the family. They settled down happily to live at Lacock Abbey, while another house in Sackville Street, London, enabled them to enjoy the social life of the capital. Nearby was the Royal Institution in Albemarle Street, with which Fox Talbot had a number of connections. Michael Faraday was one of his friends.

1832 brought important events; in December, for example, Miss Constance Mundy, of Markeaton, Derbyshire, was married to Fox Talbot and, at the same time, he was elected to represent the Chippenham division in the first Reformed Parliament. Fox Talbot had

been an ardent worker for Reform, and was distinctly Liberal in outlook, but politics did not hold his interest for very long, and two years later he did not seek re-election. The year 1832 had also been made memorable, for he had been elected a Fellow of the Royal Society in recognition of his brilliance as a mathematician. Sir John Herschel and Sir David Brewster had been somewhat concerned lest Fox Talbot's Parliamentary activities interfered with his scientific pursuits.



**"The Ladder," a photograph taken by Fox Talbot at Lacock in 1844**

### Idea Occurs

In the summer of 1833, Fox Talbot, with his wife, commenced an extensive tour of Europe. He wished to obtain a pictorial record of the places which he visited, but though his wife was an excellent artist with both water-colour and pencil, his own efforts were unsatisfactory. While on the shores of Lake Como, he endeavoured to use a camera obscura to aid his efforts. This instrument was a small rectangular box with a lens in front, and its image was projected upon a ground glass screen by means of a mirror. Fox Talbot placed a piece of semi-transparent paper on the ground glass, and endeavoured to trace the scene which could be seen upon it. While doing this, it occurred to him that a result might be achieved by chemical means, instead of using pencil, and he made notes whereby this end might be realised. Upon his return to England early in 1834 he commenced to experiment. He already knew that certain silver salts darkened when exposed to light, and proceeded with his trials, using silver nitrate as the sensitiv salt. He dipped ordinary writing paper i a solution of sodium chloride, and aft drying the sheet, washed it with a solutic of silver nitrate in distilled water. Th formed silver chloride, and by its mean he was able to obtain the outlines opaque objects such as fern leaves an pieces of lace. He also placed sensitise sheets beneath a solar microscope, and wa able to obtain magnified images of a original specimen. Thus far (though the time he did not know it), Fox Talb had followed a path already trodden b Thomas Wedgwood, the fourth son Josiah, the famous potter. Though bo had produced photographic images, neith had succeeded in fixing them.

This first method used by Fox Talb was very slow, and he endeavoured speed the action by repeated washin with his sensitising agents This creat some improvement, but he noted a furth interesting fact. At times, a greater degr of darkening was secured at the edges the picture, and he attributed this to weakness of the sodium chloride soluti in that area. This led him to use a muc weaker solution of sodium chloride (I called it a "sub-chloride" in his fin working), and thereby he gained a co siderable increase in sensitivity. Followir this discovery he argued that, if a wea solution of salt accelerated the action, saturated solution should retard it. Th led him to use sodium chloride as his fi fixing medium, and here was the first gre step which he made. His pictures were a negative in which the lights and shad were reversed, but having found a mea whereby further darkening was arreste he was then able to produce positive prin from them. It is from this elementa stage that all subsequent photograph technique has developed.

### Carpenter Makes Cameras

Fox Talbot was now able to have son small cameras made by a local carpent in Lacock, and using these, he made number of miniature photographs of L cock Abbey in 1835, some of which st exist. One showing a window in the sou gallery (and now preserved in the Scien Museum, London) is dated August 183 and is therefore the oldest existing phot graph whose date is authentic.

Fox Talbot did not apparently reali the importance of his discoveries, and du ing the next four years busied himself wi

other matters of mathematical and scientific interest. The announcement of Daguerre's work in France, which stirred the scientific world at the beginning of 1839, brought to Fox Talbot the realisation that he was wrong in having failed to reveal his own success in inventing a photographic process. He therefore completed a paper which was read before the Royal Society on January 31, 1839, in which he described his process which he termed "Photogenic Drawing." Daguerre's process was not revealed until the following August, when it was clear that the two processes were entirely dissimilar.

Stimulated by disappointment, Fox Talbot returned to his photographic experiments with renewed ardour. Countless trials were made before he evolved in 1841 a new method which he called Calotype. In the meantime, Daguerre had been showered with honours and given a life pension of 6,000 francs per annum by the French Government. Despite this, a patent was taken out in this country, and further financial gain was achieved by Daguerre, much to the disgust of certain of his French compatriots. Guided by this example, Talbot took the precaution of patenting his new discovery before revealing it to the public, for he had spent a great deal of money upon experiments, and, with Sir David Brewster, felt that he was entitled to some return. The Calotype process was much more rapid than Photogenic Drawing, and was to lead the way for its successor, the wet collodion process, some ten years later. Under licences issued by Fox Talbot, countless amateurs and professionals used the Calotype process, and it was of particular value to the traveller. To make it more widely known, Fox Talbot published a book in 1844 called the Pencil of Nature, the first ever to be illustrated by photography. It was in six parts, each containing four actual photographic prints. Some copies still exist.

In 1852, the Calotype was given to the public for use, Fox Talbot reserving only the right to control the process in the matter of professional portraiture. Two years later, he abandoned this right as well. In the meantime, in his search for a means of producing permanent photographs, he invented a method of engraving which he called Photolyphic engraving. An improved process in 1858 laid the foundation of photogravure.

Thereafter, Fox Talbot's interest in photography diminished, and he turned to other fields of research and study, at Lacock Abbey, where he died in 1877.

# PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

The Council of the Pharmaceutical Society of Great Britain, at its meeting in London on January 31 and February 1, decided to postpone for a further period of two years the coming into operation of the three-year course for the Qualifying examination

Mr. Meldrum promised Council the final draft of the new syllabus at its next meeting. On the Monday prior to that meeting, a special meeting of the Education Committee, together with the heads of the departments concerned, would be held, and he cordially invited any member of the Council to attend it.

Mr. A. R. Melhuish, who seconded the motion to receive the report, asked whether there was any relationship between the new syllabus and the suggestion that had come from the Scottish board of examiners that the examination should be divided.

Mr. Meldrum said the letter from Scotland would be given due consideration at the special meeting and at the subsequent meeting of the Education Committee. That matter could not be decided at the special meeting. Every opportunity would be afforded to members of the Education Committee and the Council to go fully into all those matters in order to avoid rushing.

Mr. Melhuish then asked whether any decision on the new syllabus would be arrived at before the question was discussed, and Mr. Meldrum assured him that every point would be considered, including the letter from Scotland.

The President said he understood that it would be a matter purely for the Council. A preliminary meeting with the heads of the schools of pharmacy would be followed by a meeting of the Education Committee, and eventually by a meeting of the Council. There would be ample time, but the position would be watched.

Mr. D. W. Hudson asked what precisely was meant by item number 6 in the report "Review of Examination Regulations." Mr. Meldrum replied that perhaps Mr. Hudson was not present at the Council meeting at which the Council had been compelled to rescind an earlier decision to

continue the three-year course, and at which a reversion had had to be made to the two-year course, at least for an interim period, on the understanding that the position would be reviewed in two years' time. That time had now arrived, but it was still felt that the time was inopportune to lengthen the course, and the Council was being asked to agree to a further postponement for two years, after which the matter could be reviewed.

THE PRESIDENT pointed out that the item did not mean that at the end of 1952 there would be a three-year course. There might possibly never be a three-year course.

**Herbarium Competition Discontinued**

Another recommendation made by the Committee was that the herbarium competition should be discontinued. MR. H. M. HIRST said that the step was to be regretted, but the committee was right in recommending it, for it was necessary to move with the times. Thanking Mr. Hirst, MR. A. A. MELDRUM (chairman of the Education Committee) pointed out that the recommendation did not rule out a competition on somewhat similar lines but more in accordance with up-to-date requirements.

The report was received.

**Referred Back to Finance Committee**

When the minutes of the Establishment Committee were presented by MR. GRANVILLE SHAW, Mr. F. G. Wells queried item 6 (Brunswick Square Building), in which it was recommended that the account for 250 guineas should be paid to Mr. H. J. Rowse (the architect) on receipt of an assurance from him that it would be the final discharge of the Society's obligations. Was that item something fresh, he asked? He thought that the matter had been cleared up.

MR. GRANVILLE SHAW replied that all the fees for which accounts had been received had been paid, but a supplementary account dating back to 1945 had been received for items which certainly could not be disputed. Some of them were items undertaken at the request of the College. There was no alternative but to pay the account.

MR. WELLS asked whether the recommendation had been before the Finance Committee, because there was a recommendation that all items exceeding £50 should be put before that committee. MR. GRANVILLE SHAW replied that it had not, and MR. WELLS thereupon suggested that it should go before the Finance Committee. THE PRESIDENT agreed and said the matter would be put back for a month. The report was received.

**Typing for Students—but no Provision of Headquarters**

Item 7 was queried by MR. W. J. TRISTRAM. The paragraph recommended that, for one afternoon a week, the secretary of the British Pharmaceutical Students' Association should be allowed the use of a room in the Society's house and the service of a shorthand-typist, but that an application to use 17 Bloomsbury Square as the address of the Association should not be granted. Mr. Tristram said it appeared that the Committee was granting the more difficult facility and refusing one that was comparatively simple. THE PRESIDENT explained that an accommodation address could prove quite difficult at some times of the year.

MR. REID asked whether the Committee was satisfied that nothing would be created in the way of a precedent, and THE PRESIDENT pointed out that the arrangement would be subject to revision from time to time; it was by no means permanent. MR. REID said he would prefer a trial period inserted in the recommendation and the position reviewed by the appropriate committee, but THE PRESIDENT said that that was implied in the recommendation.

**Addresses of Disqualified Doctors**

When MR. T. REID, as chairman, read the minutes of the Organisation Committee, he reported the receipt of a reply from the Home Office to a request by the Society that up-to-date addresses should be supplied with the names of doctors whose Dangerous Drugs authority had been withdrawn. The reply stated that it was an established practice to use, in those cases, the "registered address" only, and that to add other information would be an embarrassment to employers. It was thought that the fairest way was to adhere to the registered address principle. MR. A. R. MELHUISH pointed out that the earlier idea of giving modern addresses would be more in accordance with the Dangerous Drugs Regulations, and a better protection for the pharmacist than the original address. The chemist should be protected and should do his duty so far as the law was concerned.

MR. REID pointed out that that had been the reason for the inquiry when it was

passed to the committee by the Council. While not entirely happy about the position, the Committee had sympathy with the Home Office view. It was realised that in some pharmaceutical establishments it was difficult to check the address of every doctor who demanded a Dangerous Drug, but the Committee had gone as far as it could in the matter. The Committee agreed that it should be pointed out, when notifications were circulated to branches, that the addresses given were the registered and not necessarily the present addresses of practitioners. The report was received.

**Retiring Members and Auditors**

It was reported that the following members of Council were due to retire in May 1950:—Mr. E. A. Brocklehurst, Miss M. A. Burr, Messrs. T. Heseltine, G. H. Hughes, A. R. Melhuish, H. Steinman and F. G. Wells. The following auditors were due to retire at the same time:—Sir Harry Hague, Mr. J. C. Hanbury, Mr. J. S. Hills, Sir Harry Jephcott and Mr. E. A. Umney.

**Employment for Displaced Pharmacists**

The Council noted with satisfaction that an overwhelming response had been received to the appeal by Mr. J. B. Cartland on behalf of pharmacist displaced persons. Mr. F. C. Wilson (deputy-chairman, Public Services Committee) said that it would, in fact, be difficult to find a sufficient number of candidates for all the employers who were willing to help.

**Scholarships and Prizes**

After considering the report of the special committee on scholarships and prizes, the Council decided, on the recommendation of the Education Committee, that in future the Jacob Bell Memorial scholarship should comprise a monetary award of £150; and that the award of the Greenish Memorial scholarship should, subject to the concurrence of the interested parties, be offered to the council of the School of Pharmacy of the University of London.

A communication from the Clerk to the Privy Council enclosed an Order of Council appointing Mr. Gerald A. Gardiner, K.C., *Chairman of the Statutory Committee*. (The previous chairman, Mr. H. Hull, C.B.E., resigned a few months ago).

The Council agreed, as in the two previous years, to place a sum not exceeding £500 at the disposal of the British Pharmaceutical Conference executive for use in facilitating the attendance of younger members of the Conference at the 1950 meeting to be held in Glasgow.

**Registrar's Report**

The registrar's report for the year 1949 showed that since the previous meeting forty-one persons had been registered as apprentices or students. Applications from five pharmacists for registration under reciprocity arrangements (four formerly of Northern Ireland, and one formerly of Tasmania), together with three applications from foreign pharmacists, were approved. The names of seven pharmacists removed from the registers were restored.

The Organisation Committee reported that a Cardiganshire Branch had been formed.

**Examination Results**

The report on the examinations held in England and Wales in January 1950 showed that, in the Intermediate examination, seventy-one candidates entered, of whom fifteen passed, thirty-five failed, seventeen were referred, and four were absent. Of seventy-nine candidates who sat for a referred subject, forty-seven passed, thirty-one were again referred, and one was absent. Twenty-three candidates were advised to have revision before re-entry. For the Chemist and Druggist Qualifying examination there were fifty-five entrants of whom eighteen passed, thirty-two failed, two were referred, and three were absent. Seventeen out of twenty-seven entrants passed in a referred subject, nine were again referred, and one was absent. Nine candidates were advised to have revision before re-entry. For the Pharmaceutical Chemist Qualifying examination, thirty-four candidates entered, of whom seven passed, nineteen failed, seven were referred, and one was absent. Seventeen candidates entered for a referred subject, eleven passed, five were again referred, and one was absent. Of thirty entrants for forensic pharmacy only, twenty-six passed, three were referred, and one was absent.

**Birdsgrove House**

The Warden's report stated that during the previous quarter thirty-seven guests had stayed at the home for an aggregate of 79 guest weeks. The total for 1949 was 215 guests and 452 guest weeks, an increase of 54 guests on the previous year. The Society has acquired Spring Cottage, an eight-roomed house adjacent to Birdsgrove House.

# NORTHERN IRELAND HEALTH SERVICES

The Northern Ireland General Health Services Board has approved a scheme submitted by its medical adviser and pharmacist for regularising bulk prescribing by practitioners having patients resident in institutions. The scheme will be confined to practitioners who have twenty or more patients in each institution and to a limited range of drugs, excluding drugs under the Dangerous Drugs Act and the Fourth Schedule of the Poisons Regulations, and medicines. Each practitioner concerned will be required to write the prescription in the name of the institution and to state on the prescription the number of inmates he has as patients. The implementation of the scheme requires amending regulations. The Medical Adviser reported that he had interviewed a doctor regarding the issue by him of prescriptions for P.A.S. (para aminosalicylic acid) to a patient. The practitioner stated that the drug had been prescribed on the advice of a specialist and, at the time, he did not realise that he was in error in so doing. On the recommendation of the Medical Advisory Committee the Board decided in view of the special circumstances to meet the cost. The same course was taken in the case of a doctor who prescribed H11 extract. It was stated that the prescription had been issued prior to the circulation of the Board's opinion of the drug. The Medical Advisory Committee referred to the Central Medical Committee a case in which there appeared to be excessive prescribing of a proprietary liver preparation.

There was also submitted to the Medical Advisory Committee the case of a doctor who had issued prescriptions on the day a patient was accepted by him for inclusion in his list on transfer from another doctor and on the day prior to his acceptance of the patient. It was decided to refer the case to the Services Committee.

On the recommendation of the Committee the Board decided that a notice should be inserted in the medical bulletin requesting practitioners when prescribing drops (other than eye drops) to mark the prescription clearly to that effect. Unnecessary expenditure could be avoided if prescriptions for guttæ were endorsed "Aseptic preparation unnecessary."

On consideration of an economy communication from the Ministry of Health, it was reported that no saving could be effected by the Drug Pricing Bureau at present in view of the arrears of payment due to chemists. Possibilities of "streamlining" had been fully considered, and it was possible that, when payments were up to date, three or four clerks engaged in counting and numbering might be dispensed with. The Drug Pricing Committee authorised payment on January 19 of £20,349 to chemists as balance for July. The Board decided to seek the opinion of its legal adviser on its refusal to accede to the request of a Belfast chemist to be excluded from providing service under the rota scheme. A member stated that in his opinion the regulations empowering the Board to make rota duties compulsory were *ultra vires* the Act.

## UNIFORMITY IN DRUG TESTS

The Minister of Health has issued a memorandum to Executive Councils calling for a uniform standard to be applied in applying the Drug Testing Scheme. An examination of certificates of analysis has shown, he states, wide variation in decisions whether or not a complaint should stand referred to Pharmaceutical Service Committees. The Minister draws attention "urgently" to the advice on tolerances and the interpretation of discrepancies previously given (E.C.L. 167). He continues that he "understands" that in some cases Councils have, on the advice of the chairman of the Service Committee and the pharmacist member, issued warnings to chemists or asked for observations in regard to a discrepancy without prior reference to and investigation by the Service Committee. The intention of the testing scheme is to take disciplinary action against a chemist only after investigation by the Pharmaceutical Service Committee before whom the chemist has the right to be heard. Departure from that procedure may prejudice further action. A copy of the analyst's report should be sent to the chemist only where the matter has been referred to the Service Committee. In tests of tablets it is considered desirable that a minimum of ninety should be ordered, allowing the analyst a sample of thirty; and that each E.C.10 form used in tests should contain one prescription only. The Minister takes a serious view of cases in which chemists have failed to label bottles in accordance with the prescriber's directions, and asks analysts to bring such cases to the notice of the Department.

# "CO-STARRING" THE PHARMACIST

A NEW film, "Birth of a Drug," presented by Imperial Chemical (Pharmaceuticals), Ltd., gives credit to the pharmacist for the part he plays in launching a new synthetic medicament. "The pharmacist must make up the chemical substance into a stable preparation, safe and convenient for use by the clinician, and capable of exerting the maximum therapeutic effect. To do this, he must be familiar with the chemical and physical properties of the drug and also with the needs of the practising doctor." So runs part of the script.

The film traces the evolution of a new compound from the clinical study of the disease it is designed to treat. The first step is to isolate and identify the causative germ from a culture prepared by the pathologist at a hospital. A biologist from the laboratories of a pharmaceutical manufacturer visits the hospital for discussion. Research starts in the manufacturer's laboratories. Attempts are made to grow the organism in different types of culture media, and the course of the disease in infected animals is recorded. Some batches are treated with chemical substances known to be useful in similar diseases, others with new compounds specially prepared. The chemical attack may be based on the histological study or be the result of empirical work by biologist, biochemist, and organic chemist. Variants of the original structural type are worked out. The discovery of a compound with definite therapeutic action leads to small-scale production and further tests. The precise action of the drug on different parts of the animal system is ascertained, and any unexpected reaction noted. Trials are extended ultimately to human patients. The pharmacist presents the drug as a stable preparation and the tests are made ("still," p. 179). The results satisfy the research team that a discovery of genuine value has been made, and accounts are published in scientific literature. Questions of packaging, distribution, etc., are decided and full-scale production initiated.

The film is available to associations for free exhibition. It runs for thirty minutes, and is on 16-mm. sound-film stock. Application should be made to the I.C.I. Film Unit, 61 Curzon Street, London, W.1.

# HOSPITAL PHARMACISTS IN S.W. REGION

PHARMACISTS from hospitals in the South-West Metropolitan Hospital Region met in conference on January 28, Mr. Shaw, (Kingston Hospital) in the chair. MR. SHAW said that the South-west Metropolitan Hospital Pharmacists' Committee, during its first year of office, had made itself known to the Regional Hospital Board and had carried out a survey of the pharmaceutical service in the hospitals within the area. Mr. Benjamin, Botleys Park (secretary), introduced the report, a summary of which was published in the *C. & D.*, January 28, p.111.

Discussing the report, pharmacists present thought that some record of the work done in their department should be kept, though the danger of too much book-work was stressed The risk that the preparation of sterile intravenous solutions might pass into the hands of pathologists was pointed out, and the Committee decided to give the matter early consideration. The report was adopted unanimously, and the Committee was instructed to take action on all matters raised in the discussion.

THE SECRETARY gave details of correspondence he had had with the Regional Board, which would not recognise the committee as an official advisory committee, though it was prepared to consider any proposals it might make and was willing to refer pharmaceutical matters to it for comment and advice. The Board had circularised hospital management committees notifying them of the existence of the committee, and requesting them to give the committee all facilities for visiting the hospitals to make a more detailed survey.

**Subscriptions Invited**

MISS HARRIES, Tooting Bec (treasurer), explained the financial position. The London Branch of the Guild of Public Pharmacists had given the Committee £5 for its initial expenses, but that sum had all been spent. The conference decided to issue a subscription list and to invite all pharmacists in the area to contribute a minimum of 5s. a year.

The constitution and aims of the Committee were approved and the following were elected to serve upon it:—Mr. Benjamin; Miss Cross, St. Mary Abbots; Mr. Hailstone, St. James'; Miss Harries; Miss Harvey, Richmond; Mr. Meadows, Putney; Mr. Ogden, West Park; Mr. Shaw, Kingston; and Mr. Simpson, St. Helier.

# REPORT ON THE BRITISH CHEMICAL INDUSTRY

*Concluded from* THE CHEMIST AND DRUGGIST, *February 4, p. 154*

## Staff and Labour Relations

STAFF policy, that is, policy concerned with those having scientific, technical or managerial qualifications, and with office personnel, will be considered under five headings.

1. Recruitment, including a regular flow of technical and non-technical staff of the requisite kinds.
2. The supply of adequate and comprehensive training facilities for staff after recruitment.
3. The proper assessment of personal qualities and performance and its recognition by suitable transfer and promotion.
4. The maintenance of fair salary scales, which must be consistent between jobs of comparable responsibility inside the organisation and outside.
5. Staff welfare and conditions and the provision of opportunities for joint consultation and for individual approach on personal matters.

In recruiting scientific staff the industry has always maintained close touch with the Universities and many schools and with the Ministry of Labour and National Service. The industry itself has often undertaken responsibility for giving talks to schools and colleges, stressing the interest, and even adventure, of industrial life and what the chemical industry is like and what kind of jobs it has to offer. In selecting staff and in assigning the recruit to a job, an attempt is always made to reconcile his wishes with a considered judgment of his knowledge, aptitude and potentialities.

### Education and Training

First, for employees over eighteen pursuing approved technical or commercial courses there is a daytime release up to a maximum of one day per week, again exclusive of evening classes; secondly, there is payment, wholly or in part, of tuition fees and travelling expenses. The extent to which these additional facilities are granted will depend upon the individual employee's ability to profit by the courses, the extent to which they will enable him to do his job more effectively and the demonstrable progress that he makes. With the recent expansion in the granting of awards by national and local education authorities, the industry in general now prefers to make post-graduate awards to those who have shown outstanding progress in their work or their part-time studies or both. Nevertheless, there are a number of instances in which grants are given to individuals irrespective of what they may hold from other sources. Thus one large company for a period of seven years has awarded eighty-eight research Fellowships at £600 each per annum. These go to individuals who it is hoped, will be thereby encouraged to pursue their studies to a point at which their chemical prowess will make them of real value to the nation.

A particularly interesting development is the establishment by one large company of an Industrial Hygiene Research Laboratory. Its research work is both physiological and toxicological and one of its objects is to determine the potential toxic hazards of new products. It issues reports on their physiological properties even when they are only at the research stage, so that the precautions that would have to be taken in the event of pilot and full-scale manufacturing development can be considered.

### Number of Employees

The number of people employed in the chemical industry as defined for the purpose of this report is as set out in the table below. The figures relate to the position on December 31, 1948.

| | *Number of Employees in the Chemical Industry* | | |
|---|---|---|---|
| | *Male* | *Female* | *Total* |
| (*a*) Number of operatives ... | 89,736 | 12,324 | 102,060 |
| (*b*) Number of administrative, technical, clerical and sales employees (excluding those under (*c*)) ... | 20,910 | 12,671 | 33,581 |
| (*c*) Number of scientific staff (i.e., professionally qualified such as chemists, physicists, biologists, pharmacologists, metallurgists and engineers) ... ... | 5,923 | 253 | 6,176 |
| Total ... | 116,569 | 25,248 | 141,817 |

The figures for the chemical and allied trades as a whole, as estimated by the Ministry of Labour, for January 1949, are as follows:—

| ESTIMATED NUMBERS EMPLOYEED IN CHEMICALS AND ALLIED TRADES—JANUARY 1949 | |
|---|---|
| Coke ovens, chemicals and dyes, explosives and fireworks ... ... ... | 249,400 |
| Pharmaceutical and toilet preparations, perfumery and soap, etc. ... ... | 79,600 |
| Paint and varnish ... ... ... ... | 37,100 |
| Mineral oil refining, other oils, greases, glue, etc. ... ... ... ... ... | 63,500 |
| | 429,600 |

# CORRESPONDENCE

## Bowls in Northern Ireland

SIR,—It is proposed during the coming season to organise for the benefit of the Benevolent Fund of the Pharmaceutical Society of Northern Ireland a bowling competition for chemists in Northern Ireland. It is first necessary to find out how many chemists in Northern Ireland are interested in bowls, and a postcard from them addressed to me at 4 Waring Street, Belfast, would be helpful in organising the competition, details of which will be forwarded to them in due course. When sending in their names chemists are invited to make suggestions in connection with the organising of the competition.

J. CALDWELL, *President*,
Belfast. Ulster Chemists Association.

## Questions for Parliamentary Candidates

SIR,—The forthcoming general election provides an opportunity to bring to the personal notice of all candidates some of the injustices which chemists have suffered for too long or policies that threaten their livelihood. May I suggest that, among other questions, candidates should be asked if they agree:—

1. That, as all food and drink for human and animal use are totally exempted from liability to purchase tax, all drugs and medicines should be similarly free of this tax.

2. That, as a result of the persistent refusal of H.M. Treasury and H.M. Customs and Excise to agree to the refund of tax paid on unsold stocks of goods, such as medicines, drugs, toilet preparations, cosmetics and perfumes, when the tax is either removed or reduced, chemists have, from time to time, during the past ten years, suffered severe financial losses, and whether they would support action which would ensure that chemists are in future reimbursed the full amount of purchase tax paid on stocks unsold at the time the tax is removed or reduced.

3. Whether the candidate approves collective schemes of resale price maintenance such as that operated by the Proprietary Articles Trade Association and applied to some thousands of branded products during the past fifty-five years and which have ensured fair prices to the consumer and trading stability to producer and distributor, and whether he will resist the Government's expressed intention to make such schemes of price observance (which comply in all respects with the Prices of Goods Acts) illegal.

4. That payments to chemists under the National Health Service have been allowed to fall excessively behind the dates on which they became due and that the machinery of pricing should be improved on the lines suggested by representatives of pharmacy so that payment may in all cases be prompt.

NON-POLITICAL.

## Bristol School of Pharmacy

SIR,—We intend to celebrate the twenty-first anniversary of the transfer of the old Bath and West of England College of Pharmacy to the Merchant Venturers' Technical College, Bristol, and the forty-second session in the history of the school, by holding a school dinner on March 11 at the Grand Hotel, Bristol, at 7 for 7.30 p.m. A large number of circulars have been sent out, but our records of the earlier days are necessarily imperfect now, so we ask all old students who have not received an announcement to accept our apologies and send their applications for tickets (25s. each) to Mr. E. J. Shellard, College of Technology, Unity Street, Bristol. We shall have the pleasure of receiving many distinguished visitors well known in the educational world and are anxious to have the support of as many of our old students as possible.

Bristol. WILLIAM COOPER.

# FIFTY YEARS AGO

## Division of the Minor

(*From the C. & D., February* 10, 1900)

THE discussions at the Pharmaceutical Council this week on the failures in the Minor examination are opportune and encouraging. It will be observed that the failures are not attributed to increasing incompetency on the part of the candidates, nor was any specific reason advanced and sustained, unless that some years ago the scope of the examination was considerably extended, and simultaneously professorial examiners were appointed in chemistry and botany. Mr. Carteighe, quite properly, refuted the assertion that increased failures in these two scientific subjects are due to the idiosyncrasies of the professorial examiners, or, to put it more properly, their lack of sympathy with the pharmaceutical candidate, who is not a specialist in either subject, but a composite of half-a-dozen. The failures in botany and chemistry are high, but the professorial examiners approach these subjects as men who are asked to give their special knowledge to determine whether the persons whom they examine accord to a standard which the Council, not these professorial examiners, formulated. It is the system which is at fault: the examination is overcrowded . . . The tone of the Council discussion was quite in sympathy with this view.

# TRADE REPORT

**Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.**

## 28 Essex Street, W.C.2, Feb. 8

THE markets for PHARMACEUTICAL and FINE CHEMICALS are relatively quiet, with a smaller demand from home consumers although the level of exports is well maintained. The first day of the month saw a number of upward price movements—in most instances the increases were recorded in our last report but a few of these changes, including new prices for SULPHANILAMIDE and STEARATES, are given on p. 193. Advancing prices are held responsible for the lack of interest in CRUDE DRUGS It is evident that the devaluation of sterling in relation to the U.S. dollar, which occurred less than five months ago, has not only produced a higher level of prices for commodities originating in hard-currency areas of the Western Hemisphere but has been largely responsible for increases in prices of goods produced in soft-currency countries—this latter tendency has been in evidence wherever the United States has been in the market, with prices, in many instances, following the supply and demand of the dollar area. Consumers are awaiting supplies of Chinese RHUBARB; there are practically no supplies (one case only) on the spot, and this shortage has continued for several weeks. MENTHOL is in good request and the spot market is slightly firmer; Brazil is not offering supplies before April-May shipment. More offers of menthol are being made from China with prices showing a wide divergence according to the port from which shipments are to be made; it is understood that little business has been done. Prices of CAMPHOR, powder and tablets are lower. In the ESSENTIAL OILS market rather more Chinese star ANISE is being offered and prices are again slightly lower on the week. CASSIA is also quoted at lower prices. There has been an advance in PALMAROSA reflecting a strong market at source. Bourbon GERANIUM is firm. Demand for TEASEED OIL has been good for immediate delivery with many "bears" purchasing to cover January short sales. The Ministry of Food announces that no changes will be made in prices of UNREFINED OILS and FATS and technical animal fats allocated to primary wholesalers and large trade users during the four week period ending March 4.

## U.S. Drug and Chemical Report

**New York, February 4**

PHARMACEUTICAL CHEMICALS are meeting with only a small demand, and last week saw no price developments. It is reported that the current price for MENTHOL of $10.60 per lb. might be shaded in spite of the fact that stocks here are not too plentiful. Sales of ANTIHISTAMINICS were still mounting. There have been no price changes in the CRUDE DRUGS market, but it is reported that the current price range of 12 to 12¾ cents per lb. for GUM ACACIA might be cut in view of the plentiful supply and inactive demand; holders of this gum apparently desire to cut down their stocks. The trend in HYDRASTIS ROOT is still downward, while export demand is limited. Ribbon TRAGACANTH is quiet. Stocks of drugs in the hands of dealers are small and although inquiry is rather light, the tone of the market is firm. GINGER has been a feature of the past few days; sellers at the sources are reluctant to accept current buyers' ideas of prices and the market here has witnessed an upward adjustment in various grades. African root is four cents per lb. dearer at 47-48 cents, while Jamaica No. 1 is one cent per lb. higher at 50-51 cents per lb. The ESSENTIAL OILS market is firm and prices generally are upward in tendency. A recent increase in the price of cold-pressed LEMON OIL by the California Fruit Exchange (to $3.25 per lb.), has been followed by a five cent increase by houses representing independent producers; these are now quoting $2.85 to $2.95 per lb. The primary market for Italian lemon is considerably stronger, and reflects greater demand from countries other than the U.S. GERANIUM prices show an upward trend.

### Exchange Rates on London

Rates at the opening on Wednesday morning were:—

| Centre | Quoted | Rate |
|---|---|---|
| *Alexandria ... | Piastres to £ | 97¼—97¾ |
| Amsterdam ... | Florins to £ | 10.63—10.65 |
| *Australia ... | £A to £ | 125—125½ |
| *Bombay ... ... | Shillings to rupee | 1/5 1/8—1/6 1/16 |
| Brussels ... ... | Francs to £ | 139.90—140.10 |
| Copenhagen ... | Kroner to £ | 19.32—19.36 |
| Dutch East Indies | Florins to £ | 10.63—10.65 |
| Dutch West Indies | Florins to £ | 5.27½—5.29 |
| *Hong Kong ... | Shillings to $ | 1/2 7/16—1/2 9/16 |
| *Israel ... ... | £I to £ | 99¾—100¼ |
| *Karachi ... ... | Shillings to rupee | 2/1 27/32—2/1 15/16 |
| Lisbon ... ... | Escudos to £ | 80.35—80.75 |
| Manilla ... ... | Peso to £ | In suspense |
| Montreal ... ... | Dollars to £ | 3.07 3/4—3.08 1/4 |
| New York ... | Dollars to £ | 2.79 7/8—2.80 1/8 |
| *New Zealand ... | £NZ to £ | 100 3/8—101 |
| Oslo ... ... | Kroner to £ | 19.98—20.02 |
| Paris ... ... | Francs to £ | 979—981 |
| Rio de Janeiro ... | Cruzeiros to £ | Braz. a/c |
| *Singapore ... | Shillings to $ | 2/4 1/32—2/4 5/32 |
| Stockholm ... | Kronor to £ | 14.47—14.50 |
| *Teheran ... ... | Rials to £ | 89.40—91.00 |
| Zurich ... ... | Francs to £ | 12.23—12.26 |

* Free market rates; remainder Bank of England fixed rates.

## Pharmaceutical Chemicals

ASPIRIN.—Home-trade price for POWDER 3s. 5½d. per lb. in 10-cwt. lots and 3s. 7d. er lb. in 1-cwt. lots. Scheduled rates per . for quantities of 28 lb. and under cwt. are: 4s. 6d. (1-lb. containers); s. 5d. (2-lb.); 4s. 4½d. (4-lb.); 4s. 3½d. 7-lb.); 4s. 3d. (14-lb.); 4s. 2d. (28-lb.). Net one month. Rates per 1,000 for bulk upplies of TABLETS are: Under 5,000, s. 9d.; 5,000 and over, 3s. 7d.; 10,000, s. 6d.; 25,000, 3s. 4d.: 50,000, 3s. 3d.; 00,000, 3s. 2d.; 250,000, 3s. 1½d.; 500,000, s. 1d.; 1,000,000, 3s.

BENZOIC ACID.—Dearer. B.P. quality is ow from 2s. 4d. to 3s. 2d. per lb.; the ODIUM SALT is from 2s. 2d. to 3s. per lb.

BISMUTH SALTS. — Makers' prices are s follows:—CARBONATE.—1-cwt. lots, 7s. 11d. (28-lb. containers); 18s. 0½d. 7-lb.); 18s. 3d. (1-lb.); smaller quantities re scheduled up to 21s. 4½d. per lb., ac- ording to pack. CITRATE is 3s. 7d. per lb.; ALICYLATE, 2s. 9d.; SUBNITRATE, 2s. 6d.; nd SUBGALLATE, 6d. less than carbonate.

COCAINE. — Current rates per oz. are: LKALOID, CITRATE and SALICYLATE, bot- es, ¼-oz., 89s.; ½-oz., 85s.; 1-oz., 82s. 6d.; oz., 80s. 6d.; 4-oz., 79s. 3d.; 8-oz., 3s. 3d.; 16-oz., 75s. 3d.; tins, 25-oz., 3s. 9d. HYDROCHLORIDE, NITRATE and ULPHATE, bottles, ¼-oz., 79s.; ½-oz., 75s.; oz., 72s. 6d.; 2-oz., 70s. 6d.; 4-oz., 9s. 3d.; 8-oz., 68s. 3d.; 16-oz., 65s. 3d.; ns, 25-oz., 64s.

CHLOROCRESOL.—Pharmaceutical quality quoted at 4s. per lb. in 1-cwt. drums.

CITRATES. — Prices are as follows:— OTASSIUM, 5-cwt. lots, 2s. 10½d. per lb.; cwt., 2s. 11½d.; scheduled prices for uantities of 28 lb. to 1 cwt. are (con- iners in brackets): 3s. 9½d. (1-lb.); . 8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d. 4-lb.); 3s. 5½d. (28-lb.); IRON AND AM- ONIUM CITRATE, B.P., 7d. per lb. more; ODIUM, B.P., 3d. per lb. less; powder, 1d. r lb. extra.

ISOPROPYL ALCOHOL. — Makers quote s. 3d. per gall. for small lots.

LIQUID PARAFFIN.—Producers' prices to holesale distributors for HEAVY, B.P., e £91 5s. per ton (7s. 2½d. per gall.), 40/50 gall. returnable loaned drums; d in 5-gall. returnable drums, 7s. 11d. r gall. (or 8s. 5d. per gall. in free 5-gall. ums). LIGHT, B.P., is £71 5s. per ton s. 6d. per gall.) in 40/50 gall. return- le loaned drums, and 6s. 2½d. per gall. returnable 5-gall. drums (or 6s. 8½d. r gall. in free 5-gall. drums). Delivered e to buyer's station in the U.K.

MAGNESIUM OXIDE. — Light, B.P., is arer by fourpence per lb. from February New rates per lb. are as follows: Not ss than 1 cwt., 2s. 10d.; 5-cwt. lots, . 9d.; 10-cwt., 2s. 8d.; 1-ton, 2s. 7d.; cked in 28-lb. parcels, delivered in U.K.

PANCREATIN.—An easier market. 1-cwt. lots are quoted at 9s. per lb., and 28-lb. at 10s.

PEPSIN.—In 28-lb. lots, B.P. is 26s. 9d. per lb. and U.S.P. is 29s. per lb.

PILOCARPINE.—ALKALOID is now quoted at from 41s. (25-oz.) to 42s. 3d. (4-oz.) per oz.; HYDROCHLORIDE is from 38s. to 39s. 3d. per oz., and NITRATE, from 36s. 6d. to 37s. 3d.

PROCAINE HYDROCHLORIDE.—Prices range from 50s. to 53s. per lb., as to quantity.

QUININE.—Steady. Makers' rates (per oz.) to home-trade distributors are given below; additional charges must be added for repacking, etc. ALKALOID, from 5s. to 5s. 6d.; ACETYLSALICYLATE, 6s. 3d. to 6s. 9d.; BISULPHATE, 3s. 7d. to 4s. 1d. DIHYDROBROMIDE and DIHYDROCHLORIDE, 4s. 11d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 3d.; GLYCEROPHOSPHATE, and PHOSPHATE, 5s. 5d. to 5s. 11d.; HYDROBROMIDE and HYDROCHLORIDE, 4s. 6d. to 5s.; SALICYLATE, 4s. 8d. to 5s. 2d.; SULPHATE, 4s. to 4s. 6d.; QUININE AND UREA HYDROCHLORIDE is quoted from 4s. 10d. to 5s. 4d.

RESORCIN. — Current prices range from 11s. to 11s. 6d. per lb.; MONOACETATE is from 14s. 6d. to 17s. 6d. per lb., according to quality.

ROCHELLE SALT. — Rates per cwt. for powder or granular salt are: 5 cwt., 130s.; 1 cwt., 132s. 6d. Crystal is 2s. 6d. per cwt. more than the foregoing prices. SEIDLITZ POWDER, ordinary, is now 103s. 9d. per cwt.; extra strong, 111s. 6d. per cwt.; double strength, 116s. per cwt.

SALICYLIC ACID.—Makers' quotations for 1 cwt. are 2s. 2½d. per lb.; scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. (containers in brackets) are: 2s. 10½d (1-lb.); 2s. 9½d. (2-lb.); 2s. 9d. (4-lb.); 2s. 8d. (7-lb.); 2s. 7½d. (14-lb.); 2s. 6½d (28-lb.). Net one month.

SALOL, B.P.C. — Current quotations for quantities of 28 lb. to 1 cwt. are from 9s. to 9s. 4d. per lb., according to pack. Prices for larger quantities are from 7s. 6d. to 8s. per lb.

SODIUM ALGINATE.—Current rates per lb. are unchanged as follows: 7-lb. lots, 7s. 3d.; 28-lb., 7s.; 1-cwt., 6s. 6d.

SODIUM LAURYL SULPHATE.— B.P. material is quoted at about 8s. 6d. to 9s. per lb. for small quantities. EMULSIFYING WAX is available at 6s. to 6s. 9d. per lb.

STEARATES.—Prices generally are higher. In 5-cwt. lots MAGNESIUM is 263s. per cwt.; ZINC, B.P., 265s.; SODIUM, 236s. 6d.; and CALCIUM, 245s. 1-cwt. lots are 2s. 6d. per cwt. more than above prices.

SULPHAGUANIDINE. — Prices are from 18s. 3d. to 18s. 9d. per lb., as to quantity.

SULPHANILAMIDE.—New advanced rates are as follows:—5-cwt. lots, 7s. 10d.; 1-cwt., 8s.; 28-lb., 8s. 3d.; 14-lb., 8s. 6d.; 7-lb., 9s. per lb.

## Crude Drugs

ACONITE.—Indian is quoted at 260s. per cwt., spot; *napellus* is 3s. 6d. per lb., spot duty paid.

AGAR.—Kobé No. 1 strip, on the spot, is quoted at from 14s. 6d. per lb., duty paid; to come forward from Japan, from 9s. landed, duty paid; for shipment, 7s. 6d. c.i.f.

ALOES. — Cape is quoted at from 117s. 6d. to 120s. per cwt., spot; Curaçao is from 220s. to 225s. per cwt., on the spot; from origin, 215s. per cwt., c.i.f., quoted.

BALSAMS. — *Canada* is quoted on the spot at 18s. per lb. Pará *Copaiba* is 8s. per lb., duty paid; 7s. 6d. in bond. San Salvador *Peru* is at from 6s. 6d. to 7s. per lb., duty paid. *Tolu* is from 19s. to 20s. per lb., spot; prices from 18s. 9d. to 19s., c.i.f., are asked.

BENZOIN.—Sumatra prime block is offered at about £19 per cwt., on the spot; Siam tears, 20s. per lb., spot.

BLACK HAW. — Steady. Root bark is offering at 6s. per lb., duty paid, spot London; tree bark, 3s. 3d., duty paid.

BUCHU.—Short rounds are from 3s. 3d. to 3s. 4d. per lb., spot; new-crop for shipment, 3s. 1d., c.i.f. Ovals are quoted at 3s. per lb., spot.

CAMPHOR. — Chinese tablets are quoted at from 5s. 6d. per lb. for ¼-oz. and from 5s. 3d. for ½-oz.; 2½-lb. slabs are from 5s. to 5s. 3d. per lb.; all duty paid, spot London. Refined powder (B.P.) is offered at from 4s. 6d. to 5s. duty paid; and B.B. grade from 4s. per lb., duty paid, spot. B.P. powder, afloat, is quoted at from 3s. 6d. to 3s. 9d., landed, duty paid.

CARDAMOMS.—Green Aleppy on the spot, offered at 18s. per lb. No good-quality seed; split Aleppy seed, 23s., spot.

CASCARA SAGRADA.—Quotations for 1949 peel are at from 285s. per cwt., duty paid, spot; forward, 257s. 6d., c.i.f., quoted.

CHAMOMILE FLOWERS. — Belgian on the spot are 3s. 4d. per lb., duty paid.

CHERRY BARK. — Thin natural on the spot is quoted at 2s. 3d. per lb., duty paid.

CINNAMON.—Ceylon 0000 on the spot, quoted at 2s. 9d. per lb. (2s. 3½d., c.i.f.); quillings at 1s. 1d. (10d., c.i.f.); and chips at 5d. (3¼d., c.i.f.).

CLOVES.—Zanzibar on the spot is from 1s. 4¼d. per lb.; February-March shipment, 1s. 3½d., c.i.f. Madagascar in bond is 1s. 4½d. per lb.

DIGITALIS. — English leaves from 2s. 3d. per lb.; powder, B.P., 5s. 9d.

DRAGONS BLOOD.—Steady. Singapore reboiled No. 1, £60 per cwt., spot; No. 2, £47 10s. per cwt.

ELEMI.—Quiet. Manilla No. 1 is quoted at 1s. 9d. per lb., on the spot.

ERGOT. — Attracting little interest. Portuguese is quoted at from 27s. 6d. to 28s. per lb., c.i.f.; on the spot, 27s.

GINGER.—African on the spot is offered at 345s. per cwt. February-April, 315s. c.i.f., quoted. Jamaican, new-crop No. 1 is offered at 355s. per cwt., spot; shipment 317s. 6d., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts on the spot, offered at 87s. 6d. per cwt. spot London or Liverpool; February-March shipment 81s., c.i.f. Bleached gum, 133s. spot. Talha is 50s. per cwt., on spot, shipment, 48s., c.i.f.

HYDRASTIS.—Scarce. Spot quotations are in the region of 40s. to 45s. per lb., duty paid.

IPECACUANHA.—Nicaraguan on the spot is offered at 42s. to 42s. 6d. per lb. February-March shipment, 38s. 6d., c.i.f. Colombian, 37s. 6d. to 39s., spot; supplies at origin are short and the market is firm at 30s., c.i.f. Matto Grosso from origin is offered at 50s. per lb., c.i.f., and Minas at 40s., c.i.f.

IRISH MOSS.—White carrageen is on offer at 85s. per cwt., spot.

JALAP.—Vera Cruz on the spot is offered at from 4s. to 5s. per lb., as to test. Brazilian, 2s. 9d., nominal.

KAMALA. — Spot quotations are from 2s. 3d. per lb.; dearer to come forward.

LIQUORICE.—Anatolian natural root on the spot is from 50s. to 55s. per cwt.; to arrive, 47s. 6d. Syrian natural is from 40s. to 45s., spot. Turkish block juice is quoted at from 160s. to 230s., duty paid according to holder; Turkish stick is from 300s., duty paid. Italian stick is from 280s. to 475s. per cwt., duty paid, as to grade.

MENTHOL.—In good demand. Spot quotations are from 86s. to 87s. per lb., duty paid; April-May shipment, 75s., c.i.f. China is offering at prices ranging from 77s. to 87s. per lb., c.i.f., as to port, but no business reported.

ORRIS. — Florentine good sorts on the spot, offered at about 115s. per cwt.; shipment, 85s., c.i.f.

PAPAIN. — East African white, on the spot, is from 15s. per lb.; Ceylon brown from 10s. 6d. to 12s. per lb., spot.

PODOPHYLLUM. Indian (*emodi*) on spot is from 320s. to 335s. per cwt., to test. American (*peltatum*) is nominal at about 280s. per cwt., spot.

RHUBARB. — Prices of Chinese round to come along are in the region of 9s. per lb., duty paid; shipment prices from origin vary from 7s. to 7s. 6d., c.i.f.

SANDARAC.—Scarce. Spot business has been done at 7s. 9d. per lb.

SARSAPARILLA.—Jamaican native red, on the spot, is offered at 2s. to 2s. 3d. per lb.; forward, 1s. 10d., c.i.f. Jamaican grey, 3s. 6d., spot.

SEEDS. — The ANISE market is unchanged. Turkish is quoted at 155s. per cwt. in bond, and 165s. per cwt., duty paid. Egyptian is quoted at 150s. per cwt., in bond, London. CARAWAY.—Dutch steady at 122s. 6d. to 125s. per cwt., duty paid, spot London. CELERY.—Indian quoted at 1s. 9d. to 1s. 10d. per lb., spot London; French, 250s. per cwt., duty paid, landed London. CORIANDER.—Market dearer. According to reports from Morocco, as a result of Continental buying, the price for shipment has advanced to 90s. per cwt., c.i.f., London. On the spot, business has been done at 85s. per cwt. (in bond), and sellers are quoting 95s. 6d. per cwt. CUMIN.—More inquiry. Morocco for shipment has advanced to 60s. per cwt., c.i.f.; on the spot, sellers are now quoting 165s. per cwt., in bond, and 180s. per cwt., duty paid. Cyprus is nominal at 195s., spot London. Indian is 70s. per cwt., spot London. DILL.—Indian is 62s. 6d. per cwt., spot London; for shipment, 57s. 6d. per cwt., c.i.f., quoted. FENNEL.—Indian remains quiet; 75s. per cwt., quoted, spot London. FENUGREEK. Market unchanged. Morocco is 57s. per cwt., duty paid, spot London, and 55s. per cwt., duty paid, ex store Liverpool. Indian, spot London, is in poor demand at 55s. 6d. per cwt.

SENEGA. — Supplies on the spot are offering at 11s. 6d. per lb.; for shipment, 11s. 6d., c.i.f., quoted.

SHELLAC.—F.O.T.N., pure, is 325s. per cwt., spot; F.O. Standard 1, 340s.; fine orange, 355s. to 400s. An easier market.

TRAGACANTH.—Selected white ribbon is £25 per cwt., spot; other white grades are from £65 to £115 per cwt.

TURMERIC.—Madras finger is offered at from 117s. 6d. to 120s. per cwt.; for shipment, 95s., c.i.f.

VALERIAN. — Firmer market. Belgian natural on the spot is valued at 215s. per cwt.

WAXES. — Dar-es-Salaam BEES' is firmer at 400s. per cwt., spot; February-March shipment, 380s., c.i.f. Benguela is 370s. per cwt., duty paid, and 340s. in bond; shipment, 335s., c.i.f. Abyssinian and Sudanese are quoted at 335s. per cwt., in bond; for shipment, 335s., c.i.f. Madagascar No. 2, in bond, is 315s. per cwt.; shipment, 305s., c.i.f. CANDELILLA.—Spot and forward delivery are quoted at 90s. per cwt. CARNAUBA.—Prime yellow steady at 900s. per cwt., spot; for shipment, 890s., c.i.f. Fatty grey is easier at 70s. per cwt., spot; for shipment, 650s., c.i.f. MONTAN.—Reibeck is offered at 175s. per cwt., spot; for shipment, 155s., c.i.f. JAPICURI. — 0.5 per cent. impurities is offered at 665s. per cwt., spot; 3.7 per cent., 645s., spot. SPERMACETI. — Spot, 10½d. to 2s. 3d. per lb.

WITCH-HAZEL LEAVES. — Spot supplies offered at 3s. 9d. per lb., duty paid.

## Essential and Expressed Oils

ALMOND. — English-expressed sweet oil (B.P.) is from 4s. 6d. per lb.; Spanish is quoted at from 3s. 3d. to 4s. 6d., as to grade. Bitter, on the spot, is from 30s. to 33s. per lb., as to grade.

ANISE.—Spot offers are from 12s. per lb. for drums; easier for shipment at 11s., c.i.f.

CASSIA.—Spot offers are from 17s. to 18s. per lb., shipment, 16s., c.i.f.

CITRONELLA. — Ceylon, on the spot, sellers at 8s. 3d. per lb.; February-March shipment, 8s., c.i.f. Shippers are asking 22s. 6d. per lb., c.i.f., for Java but second-hand sellers are reported offering at rather lower prices.

EUCALYPTUS. — Firm. 70-75 per cent. (B.P.) is from 5s. 3d. to 5s. 6d. per lb., spot; 80-85 per cent., 5s. 6d. to 6s. per lb., spot.

GERANIUM.—An uncertain market at source for Bourbon; spot, 95s. per lb.

ORANGE. — West African sweet on the spot is from 8s. 6d. to 8s. 9d. per lb. Palestinian sweet is from 9s. 9d. to 10s. 6d. per lb., spot; bitter is from 19s. to 20s. per lb. Sicilian bitter, 17s. per lb., c.i.f. London. B.W.I. sweet is from 10s. 9d. to 11s. per lb., spot.

ORIGANUM. — Quotations are from 17s. 9d. to 18s. 6d. per lb., on the spot.

PALMAROSA.—Supplies on the spot are reported offering at from 57s. 6d. to 60s. per lb.; for shipment, 53s. 6d., c.i.f.

PATCHOULI. — Singapore is offered at 140s. per lb., spot; for shipment, 120s., c.i.f., indicated.

PEPPER.—Java, from black pepper, is firm at from 308s. to 325s. per lb., duty paid; forward, 276s. 6d., c.i.f.

PEPPERMINT.—English-distilled is offered at from 200s. to 225s. per lb. Chinese (dementholated *M. arvensis*) is quoted at from 41s. to 45s., c.i.f., and from 46s. to 48s. per lb., spot. Italian *piperita*, for shipment, 65s. per lb., c.i.f.; on the spot, from 67s. 6d. per lb.

PIMENTO BERRY. — English-distilled oil, from 65s. to 70s. per lb. and upwards as to quantity.

PINE. —*Pumilionis*, about 16s. to 17s. per lb., spot; *sylvestris*, from 8s. 6d. to 10s.

PINE NEEDLE.—First-grade on the spot is quoted at from 14s. to 16s. per lb.

ROSE.—Bulgarian is reported offering at from 260s. to 300s. per oz., and Anatolian at 260s. per oz., both spot London. Other grades are available from about 190s. per oz. Market quiet.

ROSEMARY.—Spanish on spot is offered at 7s. to 8s. per lb., as to grade; Dalmatian, 5s. 6d.

SASSAFRAS.—Brazil on spot is quoted at about 5s. per lb., to come forward, 4s. per lb.

# COMING EVENTS

## Monday, February 13

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Red Cross Rooms, Hackins Hey, Liverpool, at 7.45 p.m. Miss M. Roberts, B.Sc. (deputy city analyst, Liverpool) on "Public Analysis."

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Lecture theatre, Medico-Chirurgical Society, 64 St. James' Street, Nottingham, at 7.30 p.m. Mr. R. C. Davey on "Colour Photography"

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Dorset Café, Ocean Road, South Shields, at 7.30 p.m. Mr. A. McGuckin on "Progress in Pharmacy."

## Tuesday, February 14

BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Birmingham, at 8 p.m. Film show, "Industrial First Aid," presented by Mr. C. W. Turner.

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun Hotel, Hanworth Road, Hounslow, at 8 p.m. Miss A. Lothian, Ph.C., on "Pharmacy in the Seventeenth Century."

PRESTON PHARMACISTS' ASSOCIATION, Preston Royal Infirmary, at 8.30 p.m. Mr. Simpson, M.D., D.P.H., on "Recent Advances in Drug Therapy." Joint meeting with local doctors.

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, Community Centre, Slough, at 8 p.m. Talk and demonstration, "The Chemistry of Photography."

WEST MIDDLESEX CHEMISTS' ASSOCIATION, Y.M.C.A., Bond Street, Ealing, London, W.5, at 8 p.m. Mr. A Chamings, B.Pharm., Ph.C., on "Antihistaminics—The Present Position."

## Wednesday, February 15

TEES-SIDE BRANCH, PHARMACEUTICAL SOCIETY, Royal Hotel, Stockton-on-Tees, at 7.30 p.m. Dr. G. R. Boyes on "Some Recent Advances in Therapeutics."

SCOTTISH DEPARTMENT, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.30 p.m. Mr. D. I. MacPhail, B.Sc., on "The Manufacture and Uses of Margarine" (illustrated).

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Stratford Church Institute, 27 Romford Road, London, E.15, at 8 p.m. Dr. K. R. Capper, B.Pharm., Ph.C., on "Education of the Pharmacist from the Pharmacy Teacher's Angle."

## Thursday, February 16

CHESTER BRANCH, PHARMACEUTICAL SOCIETY, Blossoms Hotel, Chester, at 8 p.m. Dr. F. Wrigley on "Recent Advances in the Treatment of Rheumatic Diseases."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, main lecture hall, South Devon and East Cornwall Hospital, Freedom Fields, Plymouth, at 7.30 p.m. Mr. J. Pritchard on "Biological Assay including Diagnosis of Early Pregnancy."

WIMBLEDON PHARMACISTS ASSOCIATION, Wimbledon Town Hall, at 7.45 p.m. Mr. A. Chamings, B.Pharm., Ph.C., on "Antihistaminics—the Present Position."

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BEDFORD BRANCH OF THE PHARMACEUTICAL SOCIETY has cancelled a dinner and dance arranged for February 23.

HARROW BRANCH, PHARMACEUTICAL SOCIETY, has postponed its next meeting until February 28, owing to the general election.

# TRADE MARKS

(*From the "Trade Marks Journal," January 25*)

*For hair-cream* (3).—"VASELINE CREAM HAIR TONIC"; by Chesebrough Manufacturing Co., Ltd. London, N.W.10; 680,764.

*For detergents* (3).—"SERVISCREEN"; by Servisol, Ltd., Liverpool, 2; 681,941.

*For dentifrices containing thymol* (3).—"THYMOFRICE"; by Boots Pure Drug Co., Ltd., Nottingham; 682,270.

*For detergents and shampoos* (3).—"PLUNO" by Catomance, Ltd., Welwyn Garden City; 682,68

*For pharmaceutical preparations* (5).—"VITORMA"; by Robert Jacqmin, Brussels; 667,81 "WHITEWINGS"; by Grimwade, Ridley & C (Ipswich), Ltd., Ipswich; 668,659. "MACRODEX" by Aktiebolaget Pharmacia, Stockholm; 678,25 "SUXPRIN"; by Malcolm John Watson, Bogno Regis; 681,076. "BRONOKOFF"; by William She wan, Fordoun; 681,668. "CLINICILLIN"; b Clinical Products, Ltd., Richmond; 681,670. "AS MATOL"; by Tidebrook Chemical Products, Ltd London, W.1; 682,549. "THIOPARAMIZONE"; b Herts Pharmaceuticals, Ltd., Welwyn Garden City 683,061. "ORSTRAX" and "ORSTO"; by Oystra Ltd., Morecambe; 683,071 and 683,122. "ERP TONE"; by Hirst, Brooke & Hirst, Ltd., Leed 684,639.

*For medicated toilet paper* (5).—"PASCHO"; b the Paper Shavings Co., Ltd., Edinburgh; B683,18

*For disinfectants* (5).—"LOTEMIC," "LOTEM COTE," "LOTEMICAL," "LOTEMETA," "LOTEM CO" and "LOTEMATE"; by Coalite & Chemic Products, Ltd., London, S.W.1; 683,253-63.

*For vaporisers for liquids against insects* (8).— "BAMBI"; by Pest Control, Ltd., Bourn; 683,48

*For scientific and photographic apparatus an instruments* (9).—Geometrical design; by Instru ment Re-conditioning & Sales, Ltd., Morecamb 680,726.

*For non-medicated toilet paper* (16).—"SA SOL"; by Hartley Paper Bag Co., Ltd., Leed 680,644. "GALLEON"; by Brady Walters & Co Ltd., London, N.19; 682,968. "BO-PEEP"; b Shaun Wilson Manufacturing Co., Ltd., Leed 683,335.

(*From the "Trade Marks Journal," February 1, 1950*).

*For industrial, agricultural and scientific chem cals* (1).—"BISOL"; by British Industri Solvents, Ltd., London, W.1; 676,145. "TH COPPER HORSE" in distinctive lettering and devic of man on horseback; by the Copper Horse Ga dens, Windsor; 682,218 and 682,216.

*For non-medicated toilet preparations* (3).— Design of bow; by Lentheric, Ltd., London, W. B665,697. "FLEURS DU MAL"; by Norman Har nell, Ltd., London, W.1; B675,179. "CURIOSITY by J. Dunhill Manufacturing Co., Ltd., Londo N.W.8; B679,721. "AMOR BRUJO"; by Migu Bienvenido Sorribes, Paris; B680,153.

*For all goods* (5).—"VIGORANS"; by Oppen heimer, Son & Co., Ltd., London, S.W.9; 681,29 "COBADEX"; by The British Drug Houses, Ltd London, N.1; 683,526.

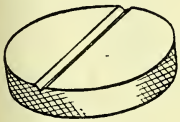


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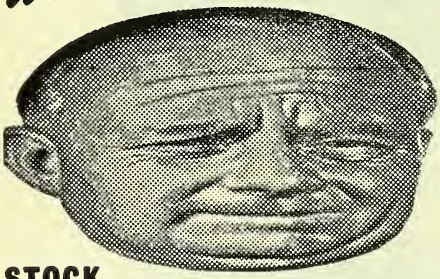
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# INDEX TO ADVERTISERS


Acton Pill & Tablet Co., Ltd. xxvi
Allans ..... xxvi
Allen, Stafford & Sons, Ltd. 19
Amber Pharmaceuticals, Ltd. 4, 15
Anglo-French Drug Co., Ltd. 34
Armstrong Cork Co., Ltd. ... xxvi
Aspro, Ltd. .....xxxii
Avon Tin Printers, Ltd. ..... xxvi

Bailey, R., & Son, Ltd. ..... x
"Belfast Telegraph" ..... iv
Benbow's Dog Mixture ..... xxiv
Berman, A., & Sons, Ltd. Col. Supp.
Blyton, Astley & Co., Ltd. ... 30
Boots Pure Drug Co., Ltd. ... 30
Bristow, T. F., & Co., Ltd. 33
British Drug Houses, Ltd., The i
British Dyewood Co., Ltd. ... vii
British Felsol Co., Ltd. ...Cover iv
British Glandular Products, Ltd. ..... xxx
Brummer, J. ..... vii
Burrough, James, Ltd. Leader Page
Burroughs Wellcome & Co.... 37

Carnegie Chemicals (Welwyn), Ltd. .....Cover iii
Carr's Flour Mills, Ltd. .....xxxii
Carton Box & Printing Co., Ltd. .....xxxvi
Cartwright, W. B., Ltd. ..... 6
Castle Huskisson, Ltd. .....xxxiv

Cellucotton Products, Ltd. ... viii
Cephos, Ltd. ..... 4
Chemist & Drugstore News ...xxxii
Chemists' Sundries, Ltd. ..... 30
Citrus Fruit Juices Control ... 30
Continental Laboratories, Ltd. 38
Cooper Laboratory, Ltd. ... 28
Cooper, Son & Co., Ltd. ... 10
Copley, F., & Co. ..... vi
County Perfumery Co., Ltd. xxxiii
Cow, P. B., & Co., Ltd. ..... ix
Cox, Arthur H., & Co., Ltd. 8
Cox, J., & Co. ..... 29
Curacho Co. ..... 28
Cuticura Preparations ..... 23

Dales Tablet Makers, Ltd. ... 15
Daniel, Richard, & Son, Ltd. 13
Denver Chemical Mfg. Co. ... xxx
Deodor-X Co. of England, Ltd. .....xxviii
Distillers Co. (Biochemicals), Ltd. ..... 17
Dolcin ..... 25
Dominion Steel Corporation, Ltd. .....xxxvi
Dunn Brothers Succrs., Ltd. vii

Edme, Ltd. ..... 34
Edwards Harlene, Ltd. .....xviii
Eucryl, Ltd. .....xxxv
Evans, Gadd & Co., Ltd. ... ii
Evans Medical Supplies, Ltd. 3

Fassett & Johnson, Ltd. ..... 10
Fennings, A. .....Leader Page
Frankenberg, L., Ltd. ..... xiv
Franks, A., & Bartlett Co., Ltd. ..... xxii
Freeman, William & Co., Ltd. ..... 18
Freudentheil, Smith & Co. Leader Page
Fryer & Co. (Nelson), Ltd. xxxvi

Gale, Baiss & Co., Ltd. ..... ii
George, E. J., & Co. Col. Supp.
Glaxo Laboratories, Ltd. ... 1
Goya ..... xxxi

Hamburger, M., & Sons ..... ii
Harley, T., Ltd. .....xxxvi
Hardy, M. W., & Co., Ltd.... 12
Harris, Hart & Co., Ltd. ... iv
Harrison, A., & Sons, Ltd. 4
Hathway, J., & Sons (Bermondsey), Ltd. ...Leader Page
Hewlett, C. J., & Son, Ltd. 26
Hirst, Stuart, Ltd. ...Leader Page

Imperial Chemical (Pharmaceuticals), Ltd. ..... 22
Industrial Fluids, Ltd. .....xxxiv
Ingram, J. G., & Son, Ltd. x
Institute of Optical Science (The) .....Leader Page
International Chemical Co., Ltd. ..... 11


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## INDEX (contd.)


Jeffreys, Miller & Co., Ltd. 15
Jeyes Sanitary Compounds Co., Ltd. ..... xxv

Kalis Paper Co. ..... xxiv
Kearsley, C. & G., Ltd. .....xxxii
Kellys, J. (London), Ltd. ... viii
Kemball, Bishop & Co., Ltd. 20
Kent, G. B., & Sons, Ltd.... 8
Kerfoot, Thomas, & Co., Ltd. 38
Kittybrewster (Paper), Ltd.... xiv
Knox Laboratories, Ltd. ..... xv

Laboratories for Applied Biology ..... 12
Locke, D. G., Ltd. ..... 14

Macdonald & Son, Ltd. ..... 16
Mandleberg, J., & Co., Ltd. xxi
Manser, Henry, Ltd. ..... 15
Markwell Edwards & Co., Ltd. ..... 15
Medo-Chemicals, Ltd. ..... xiv
Merica, M., & Co., Ltd. ... xii
Mitchell, L. A., Ltd. ..... vi
Monsanto Chemicals, Ltd. Cover ii
Mouldings & Shapes Co., The ..... 15

National Association of Opticians ..... 32

Oatine Co. ..... 36
Optical Products, Ltd. ..... xvi
Orridge & Co. .....Col. Supp.

Ozonal Laboratories (1930), Ltd. .....xxvii

Paramount Photographic D. & P. Service ..... 10
Parkinsons, of Burnley ..... 14
Pharmaceutical Laboratories (Geigy), Ltd. ..... iii
Pharmaceutical Specialities (May & Baker), Ltd. Front Cover
Phillips, Chas. H., Chemical Co., Ltd. ..... 31
Phosferine (Ashton & Parsons), Ltd. ..... 26
Pierson Morrell & Co., Ltd. iv
Polyestol, Ltd. ..... 10
Potter & Clarke, Ltd. ..... 35
Potter, W., & Sons ..... xxiv

Radiol Co., The ..... xii
Rankin Bros. & Sons Leader Page
Rexall Drug Co., Ltd. ..... 24
Richardson, G. (Medical Bottles), Ltd. ..... viii
Ritchie, George B., & Co. ... vi
Rose, J. L., Ltd. ..... vii

Savory & Moore, Ltd. .....xxxvii
Scott's Libraries, Ltd. .....xxxvi
Sessions, Wm., Ltd. Leader Page
Sharp & Dohme, Ltd. ..... 9
Shell Chemicals, Ltd. ..... 27
Simpkin, A. L., & Co., Ltd. 32
Smith, T. & H., Ltd. ..... v
Smith, T. J., & Nephew, Ltd. ..... xi

Southon Laboratories, Ltd. ...
Spa Brushes, Ltd. ..... xx
Standard Yeast Co., Ltd. ...
Stewart, Goodall & Dunlop, Ltd. .....
Sulkin, J., & Sons, Ltd. ...

Tattoo .....
Teasdale & Co., Ltd. .....
Thornton & Ross, Ltd. .....
Trade Mark Protection Society .....Leader Pa
Tye, John, & Son, Ltd. .....
Tyrer, T., & Co., Ltd. .....

United Glass Bottle Manufacturers, Ltd. ..... x

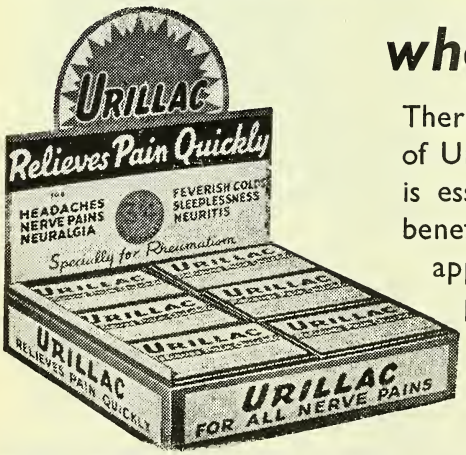
Velvet Crepe Paper Co., Ltd. .....xiii & x

Waide, Thos., & Sons, Ltd. ...
Wallace (Pharmaceutical Products), Ltd. .....xxv
Wallis Laboratory, Ltd., The Leader Pa
Wernet Dental Mfg. Co. xxxv
Wesley, Harold, Ltd. .....
Wiles of Woodmansey .....xx
Williams, Charles & Co. ...
Wood, Bros. Glass Co., Ltd....
Woolf, Lewis, Ltd. .....xxv

Zeal, G. H., Ltd. .....Cover
Zems, Ltd. ..... xx



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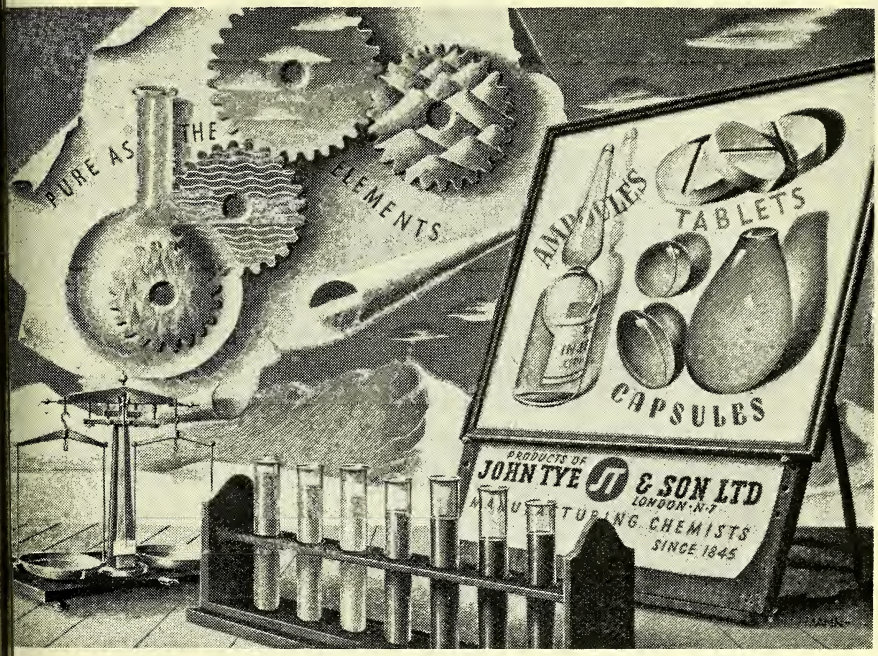

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Therefore prominent counter displa of Urillac during the winter month is essential if you wish to reap th benefit of the Urillac advertisin appearing regularly in your loc press.

*On the* P.A.T.A. *protected list*

*Sole Distributors:* W. B. CARTWRIGHT LTD., RAWDON, LEED

# TYE a knot . . remember




## Tyebrand **VITAMIN** preparations

*in*

**Ampoules**
**Capsules**
**Tablets**

*also*

**MULTIVITAMIN preparations**
**BULK VITAMINS in dispensing packs**

TYE'S Vitamin products cover the entire range of official preparations in capsule, ampoule, tablet or pill form. In addition, a number of multivitamin preparations are available for general prophylaxis.

These products are all manufactured under the strictest supervision and their quality is guaranteed to be of the very highest standard. Specialities include :—

TYEVITE multivitamin capsules.
MULTIVITAMIN OVALS (chocolate coated).
FORTIFIED COD LIVER OIL capsules.
TYEBRAND HALIBUT OIL and many others.

***Send for new*** ***complete list***

**JOHN TYE & SON LTD.,** 457-461 Caledonian Road, London, N.7
*Manufacturing Chemists and Capsule Makers since 1845*

# CENTURY-OLD EXPERIENCE

*IN SCIENTIFIC*

# *PILL and TABLET making*

PACKED OR IN BULK · STANDARD OR SPECIAL FORMULÆ
COATED OR UNCOATED · GROSSES OR MILLIONS

***Those who contemplate production of a Pharmaceutical Proprietary are invited to consult the advisory service of***

## ARTHUR H. COX & CO. LTD.

BRIGHTON, 7

***The Specialists backed by most modern machinery and techniques***

# IMPORTANT NOTICE

## FREE TRIP TO NEW YORK AND BACK
## KENT-COSBY "ALLURE" PERFUME HAIRBRUSH COMPETITION

## COMPETITION CLOSES 28th FEBRUARY

All Press Advertisements are now advising that Entry Form Leaflets can be obtained direct from the Company. With the Entry Form Leaflet we send a letter stating that each entry must be covered by the purchase of an "Allure" Perfume Hairbrush during the period of the Competition and a Dated Receipt from the Retailer has to be attached.

**WE ARE SENDING OUT HUNDRE OF ENTRY FORMS EVERY WEEK, GIVE "ALLURE" BRUSHES A REAL PROMINENT WINDOW DISPL FEATURING THE COMPETITI AND CLEAR YOUR STOCK**

G. B. KENT & SONS LIMITED · 24 OLD BOND STREET, LONDON, W

SHARP & DOHME




Send for bonus parcel of 48 tins less 33⅓% and 5%

SHARP & DOHME LTD., HODDESDON, HERTS.

# Polyestol Progress

In a widespread advertising campaign in the public press, we state that this new British discovery, the POLYESTOL BANDAGE, provides an effective weapon against Rheumatism, Sciatica, Lumbago, etc.

In the medical press, we offer a free Polyestol Bandage to all doctors on application, in order that they may make their own independent tests.

This policy is pulling results. There have now been over 1,000,000 applications of Polyestol since Spring, 1949, and the demand grows daily.

DON'T FAIL TO STOCK POLYESTOL—it sells quickly.

We are making bold point-of-sale displays to assist the sales drive, and invite you to participate in this and other publicity schemes.

# POLYESTOL

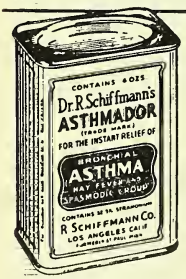
*Pain-Relieving* BANDAGE

POLYESTOL LTD · 4/5 WARWICK COURT · LONDON, W.C.1

C. F. Manufacturers

DR. R. SCHIFFMANN'S

# ASTHMADOR




*for the Instant Relief of Bronchial*

**ASTHMA**

*Hay Fever and Spasmodic Croup*

*The best selling line in America!*

Asthmador has given relief to hundreds of thousands of sufferers all over the world. As supplies are available in this country, a National advertising campaign has been launched, supported by a striking cut-out showcard container for counter and window display. Write now for trade terms to:—

**FASSETT & JOHNSON LTD**

**86 Clerkenwell Road, London, E.C.1.**

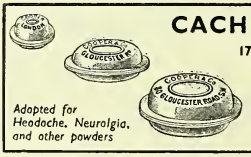
**QUALITY?**

**WE BUILT BY IT — WE HOLD BY IT**

**PHOTOGRAPHIC WORK BY PARAMOUNT SOLVES YOUR TROUBLES**

**PARAMOUNT PHOTOGRAPHIC D & P SERVICE**

138 CARDIGAN ROAD, LEEDS, 6




**CACHETS "FINOT"**

17 Sizes to fit various types of machines

*Adopted for Headache, Neurolgia, and other powders*

**COOPER, SON & Co., Ltd.**

120 Gloucester Road, LONDON, S.W.7.

ON EVERYBODY'S TONGUE THIS WINTER!




# Nipits

*The Popular Medicated Pastille*

FOR VOICE, THROAT & CHEST

TEASDALE & CO. LTD., CARLISLE

# GET 12½% extra profit★ ON EVERY £10 ORDER

*Pay £8·15·0*
*for an I.C.C.*
*£10 parcel.*
*Sell for £13·6·8*




## MAKE A PROFIT OF £4·11·8

★**Any I.C.C. Product** can be included in an I.C.C. mixed parcel qualifying for the extra Co-operation Discount of 12½% on parcels to the value of £10 and over, 10% on parcels to the value of £5 and over . . . on top of the usual basic trade discounts.

**The great variety** of I.C.C. products—all of them household words — means that every pharmacist can give a mixed order large enough to qualify for Co-operation Discount . . without risk of overstocking.

**Study the List** of I.C.C. products carefully — work out the best combination for you — and use this opportunity for *extra profits.*

### These are I.C.C. Products

- 'Anne French' Cleansing Milk
- 'Anadin' Tablets
- 'BiSoDoL' Powder
- 'BiSoDoL' Tablets
- 'Bisurated' Magnesia Powder
- 'Bisurated' Magnesia Tablets
- 'Freezone' Corn Remover
- 'Kolynos' Dental Cream
- 'Kolynos' Denture Powder
- 'Kolynos' Denture Fixative
- 'Kolynos' Shaving Cream
- 'Lystone' Salts
- 'Pineate' Honey Cough-Syrup
- 'Reudel' Bath Salts

INTERNATIONAL CHEMICAL COMPANY LIMITED

**INTERNATIONAL CHEMICAL CO. LTD., Chenies Street, London, W.C.1**




**An invigorating and Stimulating Tonic**

# LABITON

**L.A.B.**

## Stabilised Kola and Vitamin Tonic

A pleasant and palatable alcoholic tonic, 'Labiton' is prepared from stabilised kola nuts by a special method of extraction which prevents oxidative decomposition and ensures the maximum yield of the complex active substances (caffeinates of katechines). 'Labiton' acts as a stimulant to the central nervous system, and a general tonic with a definite raising of the fatigue threshold. It increases muscular performance, and acts as a mild diuretic and stomachic. It is indicated in all conditions of debility and particularly in convalescence.

COMPOSITION

| | | | |
|---|---|---|---|
| Vitamin $B_1$ ... ... ... ... ... | 7.5 mg. | Syrup B.P. ... ... ... | 30 ml. (1.05 fl. oz.) |
| Alcoholic Liquid Extract of Kola Nuts | 35 ml. (1.23 fl. oz.) | Glycero-Phosphoric Acid 20% | 0.25 ml. (4.5 min.) |
| | | Flavouring and aq. dist. ad | 100 ml. (3.5 fl. oz.) |

*'Labiton' retails at 7/1 and 3/9 per bottle (inc. tax). Trade terms are 51/- per doz. and 27/- per doz. plus purchase tax with a special "display" bonus of 13 to the doz. Sample, literature and further information sent on request.*

**LABORATORIES FOR APPLIED BIOLOGY**
**6 Percy Street, London, W.1 Telephone : Museum 5368**

**FOR HOME & EXPORT**

**PARA AMINO SALICYLIC ACID**
**AND SODIUM SALT. In bulk and tablet form**
**POTASSIUM PERMANGANATE BP**
**SULPHADIAZINE TABLETS**
**BISMUTH SALTS**
**BROMIDES**
**ARRHENAL**

**M.W. HARDY & CO. LT**
**6 BILLITER STREET, LONDON, E.**

TELEPHONE: ROYAL 8343 (10 LINES) TELEGRAMS: HARDICH

Richard Daniel & Son Ltd

PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR CHEMISTS

*Manufacturing Chemists*

Head Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

*In the heel of the North-East Trade*

RUDYARD KIPLING



Just as in earlier years the power of the trade winds was vital to the maintenance of commerce so the power of good printing is vital to the modern business house today. What is more, the production of good print, like the handling of sail, calls for a lifetime of experience.
The printed word is your ambassador-at-large, so it is essential that it should be of the highest standard. Consult us when next you are planning brochures, showcards, cartons, labels, etc. We have had a lifetime's experience of good printing and shall be pleased to place our wide knowledge at your service.

THOMAS WAIDE & SONS LTD
KIRKSTALL HILL, LEEDS, 5

*Print Specialists for over seventy years*




*These sell quickly*

Parkinsons' Pills, Kilko
Vitagrains and the wi
range of other preparatio
sell quickly and bring repe
sales through their qualit

**NATIONALLY ADVERTISE**

# PARKINSONS OF BURNLEY

# RUPTURE APPLIANCES

If your customer is not fitted with a "Locke" appliance, we are confident that he is not fitted with the best appliance. Our trusses (both spring and elastic) are made with the utmost regard for correct anatomical principles, and only the finest materials are used. Furthermore, we are proud of the fact that the invisible pads and linings of our manufactures are of as good quality as the visible parts. Naturally, all our products are guaranteed to conform to the standards laid down by the Ministries of Health and Pensions.

You are sure to have your own ideas of what makes an ideal rupture appliance, and we make a speciality of building trusses to our customers' own requirements, special orders being delivered in a time measured by days, not months.

With all these advantages, our prices are by no means the highest in the trade, as you may discover by sending for our Trade Price List. We should also be glad to ask our representative to call upon you during the course of his journey.

**D. G. LOCKE, LTD.**

**27 Eden Street, KINGSTON-ON-THAMES**

Phone: KINgston 6165

APL FINE PRODUCTS

TRADE 'BARBURAL' MARK

*The New Hypnotic-Sedative*

'BARBURAL' Each Tablet contains Cyclobarbitone Calcium.....gr. 1.
Bromvaletone B.P.C. .....gr. 4.

'BARBURAL' has the advantage of a very small Barbiturate dose

'BARBURAL' is indicated as a sedative and hypnotic in insomnia and nervous conditions

'BARBURAL' is a safe rapidly acting hypnotic with prolonged sedative effect

'BARBURAL' is issued in tins of 100 & 500 tablets.

**Amber Pharmaceuticals Limited**

*Manufacturers of Fine Chemicals and Pharmaceutical Products*

BYRON HOUSE, 7-9, ST. JAMES STREET, LONDON, S.W.1.

**THE MOULDINGS & SHAPES CO**

*We are actual manufacturers of the following:—*

**WOODEN TONGUE DEPRESSORS**
Tapered End and Standard Shape
**OINTMENT APPLICATORS**
For application of Ointments to Dressings, etc.,
**CUTICLE STICKS: 3" to 6"** Shaped Ends
**THROAT APPLICATORS**
**DENTAL TOOTH PICKS**
**CHERRY STICKS**

*The above can also be manufactured to customers own specifications.*

***Samples sent on request.***

**66 Sprowston Mews, Forest Gate, London, E.7**
Telephone: Maryland 2211

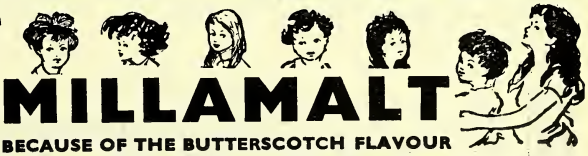
**GUMS** TRAGACANTH AND ACACIA
As imported or Finely Powdered
ALL GRADES
**HENRY MANSER LTD., 21 LIME STREET, LONDON, E.C.3**
*Telephone: Mansion House 0920*

**AMPOULES**

Ampouled Injections and Powder Ampoules in large or small quantities. Specialist production under experienced Chemical and Medical supervision.

**MARKWELL, EDWARDS & CO. LTD.**
589 HIGH ROAD, LONDON, N.12. Hillside 5806
Telegrams: Ampuls, Norfinch, London

**WE WANT**



**MILLAMALT**

ble Manufacturers: JEFFREYS, ILLER & CO. LTD., Leyland Mills, Wigan. (London Dept. 19 Brookside Rd. N.19) **BECAUSE OF THE BUTTERSCOTCH FLAVOUR**

**STANDARD SACCHARIN TABLETS**

*ENQUIRIES INVITED*

**THE DALES TABLET MAKERS LTD.**
**STEETON, Nr. KEIGHLEY** Phone: STEETON 3222

*THIS IS WHAT THEY SAY ABOUT*

# SILCOT

***They sometimes say this—***

*My customers like yours best, and many will not have any others.*
*(Nov. 18, 1949)*

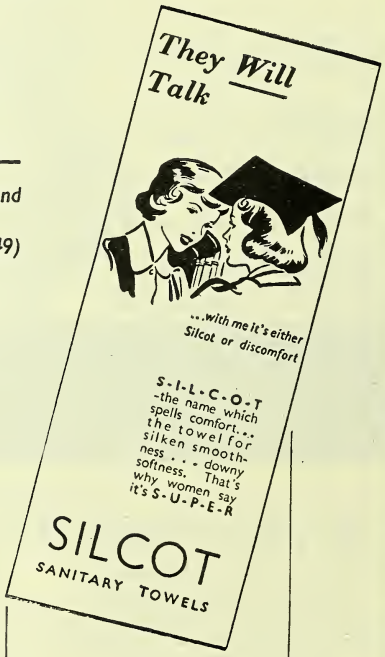
***—Sometimes this—***

*We have been repeatedly asked for your sanitary towels.*
*(Oct. 2, 1949)*

***—And at other times this—***

*If you would please send me a selection, I could then supply the demands. They must be a good towel to be asked for so often.*
*(Nov. 11, 1949)*

These extracts from recent letters show what retailers are saying about SILCOT. The reason why women are asking for Silcot is that it is a quality towel at a competitive price.




*Silcot towels are regularly advertised in the women's magazines. These have a combined circulation of some 9,000,000 copies. Above is a reproduction of the February advertisement.*

# SILCOT *Sanitary Towels*

MACDONALD & SON LTD.

HOPE MILLS, POLLARD STREET, MANCHESTER, 4 Ardwick 1561-2

# PENICILLIN




MANUFACTURED BY

THE DISTILLERS COMPANY (BIOCHEMICALS) LTD.

FLEMING ROAD SPEKE LIVERPOOL





# OF INTEREST TO YOU

THE REGISTERED SUBA-SEAL TRADE MARK




## DISTRIBUTORS' CHARTER

*Designed as a fair trading Charter—the objects of which may be summarised as follows :—*

**1** The Wholesale Distributor—to assist by the establishing of a simplified discount policy—ensure adequate remuneration for services and by the provision of publicity in suitable trade journals.

**2** The Retail Stockist—to assist by promoting and expanding the demand for "SUBA-SEAL" products by the use of national and local press, magazine advertising, poster sites, display cartons and general sales aids.

**3** To maintain list prices of "SUBA-SEAL" products and in the event of any price reduction, to make an announcement in trade publications and to allow rebate on all existing stocks held by Wholesalers and Retailers at the time of such price reduction.

**4** To maintain strict price control of all "SUBA-SEAL" products and in the event of any distributor—Wholesaler or Retailer—offering "SUBA-SEAL" products at prices other than those fixed by the Company, such distributor will be refused further supplies either direct or indirect.

**5** To encourage co-operation and sales promotion in all sections of the distributive trades, without the sacrifice of individual independence, to help and advise on all problems relating to the sale of "SUBA-SEAL" products to the general public.

**6** To foster and develop within the distributive trades technical education of "SUBA-SEAL" products by engaging in research — both manufacturing and marketing.

**7** The planning of a partnership which will operate fairly and in such a manner as to benefit the public, retailer, wholesaler, and all who are associated with "SUBA-SEAL" products.

WATCH OUT FOR THE 1950 CONTRACT BONUS SCHEME!

**WM. FREEMAN & CO. LTD.**
**Subaseal Works, BARNSLEY**
Phone : 4081
Grams: "Subaseal, Barnsley."



StaffAllenS
Founded 1833

for the finest
ENGLISH-DISTILLED AND IMPORTED

# ESSENTIAL OILS

ANISEED · CELERY
CLOVE · CINNAMON
GINGER · JUNIPER
DILL · PIMENTO
NUTMEG

*Sena us your enquiries and orders*

**STAFFORD ALLEN & SONS LTD., Wharf Rd., London, N.1. CLErkenwell 1000**

TAS/AL. 353
C

**CALCIUM GLUCONATE**
**CITRIC ACID**
**CREAM OF TARTAR**
**ITACONIC ACID**
**ROCHELLE SALTS**
**TARTARIC ACID**

•

**LITHIUM BENZOATE**
**LITHIUM CARBONATE**
**LITHIUM CHLORIDE**
**LITHIUM CITRATE**
**LITHIUM HYDROXIDE**
**LITHIUM SALICYLATE**
**LITHIUM SULPHATE**

•

*Kemball, Bishop & Co. Ltd.*

MANUFACTURING CHEMISTS, ESTABLISHED 1871

**Crown Chemical Works, Three Mill Lane, Bromley-by-Bow, London, E.3**
ENGLAND

Telephone: ADVANCE 1234 (7 lines) Telegrams KEMBALL, LONDON, ENG,
CODES ABC 6th Bentleys Private

Formula—approximately $(Bi_2O_2CO_3)_2H_2O$

# Bismuth Carbonate

**Properties.** A white or creamy white powder, without odour or taste. Insoluble in water, soluble in mineral acids with effervescence. The bulk density varies with the conditions of manufacture.

**Standard.** Bismuth carbonate complies with the requirements of the British Pharmacopœia in all respects. It is manufactured in three grades of bulk packing density. Light - 11/13 lb. per cubic foot. Medium—18/24 lb. and Heavy—over 36 lb.

**Uses.** Bismuth carbonate is prescribed for many forms of gastric disorder, and in conjunction with "ant-acids" such as sodium bicarbonate, magnesium carbonate and calcium carbonate, form the mixtures associated with the name of Dr. Hugh MacLean, which are widely used for the alkaline treatment of digestive troubles. It is sometimes used in X-Ray diagnosis and as a dusting powder. The insolubility of the oxychloride into which it is changed by the acid of the stomach and its power of coating the stomach wall contribute to its unique therapeutic properties.

**Packages.** 28-lb. parcels, 1-lb. cartons.

*Other Pharmaceutical chemicals manufactured include:—*

Citrates
Ethers
Iodides
Mercurials

STERLING *for quality*
BRAND

**Thomas Tyrer** & Co. Ltd.
Stratford, London, E.15



# PARASITES ON POULTRY



POULTRY FLEA



POULTRY LOUSE



POULTRY RED MITE

'Lorexane' Dusting Powder contains pure gamma benzene hexachloride—a powerful, but non-irritant insecticide.
Particularly effective against the insect pests which worry animals and birds, 'Lorexane' can be recommended with confidence to poultry-keepers, for the swift eradication of lice, red mite, fleas, etc.—parasites which, unchecked, can soon impair development of the birds, reduce egg production and even cause death.



Equally effective against parasites on dogs and other domestic animals.

*In convenient sprinkler-top containers of* 100 *grammes—Retail Price* 2/-. *Also in packings of* 500 *grammes and* 3 *kilos.*

From your wholesaler or, in case of difficulty, apply to your nearest I.C.I. Sales Office:—London, Bristol, Birmingham, Manchester, Glasgow, Edinburgh, Belfast and Dublin.

# 'LOREXANE'

TRADE MARK

## DUSTING POWDER

**IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD**

*A subsidiary company of Imperial Chemical Industries Ltd.*

**WILMSLOW** **MANCHESTER**

ICI

Pn.93

# Firm favourites!

*with every member of the family . . . .*

## CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

**SOAP . OINTMENT**

**TALCUM POWDER . SHAVING STICK**

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

---

*The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:*

**HAND CREAM · BABY OIL**

**SHAVING CREAM · LIQUID ANTISEPTIC**

**AFTER-SHAVE LOTION**

---

*British Distributors:* NEWBERY & PHILLIPS LTD.
203, Victoria House, Southampton Row, London, W.C.1
TELEPHONE: HOLBORN 1564

*for*

THE POTTER DRUG & CHEMICAL CORPORATION
205-207, Victoria House, London, W.C.1

313

# Meeting two modern needs




The bottle position has improved for SANIDENT and ZOFLORA sizes and we are now able to supply in greater quantities.

## SANIDENT

*Denture Cleaner*

Twenty years of regular use have proved its efficiency and safety.

**Retail 1/4½**

LAST THING EVERY NIGHT




## Zoflora

*Perfumed*
DISINFECTANT

is an efficient germicide, fragrant with strongly antiseptic floral oils and synthetics, and is especially suitable for the spraying of rooms, to dispel tobacco, cooking or unwanted odours. It is of particular value in the sickroom, where it purifies the atmosphere and refreshes nurses and patients alike.

PURIFIES THE AIR

**Retail Price 2/-**
Complete Spraying Outfit 10/-

*Usual Trade Discounts*

TR140

THORNTON & ROSS LIMITED
*Manufacturing Chemists*
LINTHWAITE · HUDDERSFIELD

## To all

# Rexall Chemists

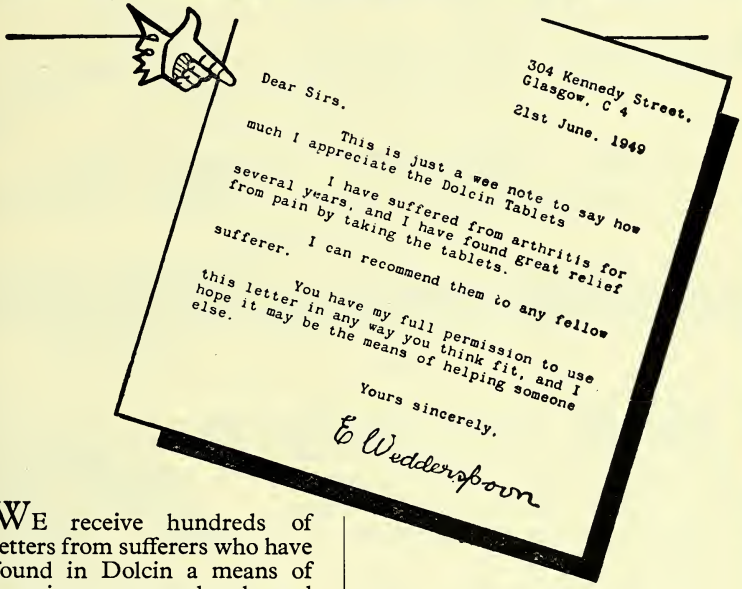
*A reminder of the special selling concentration arranged for February 20th - 28th, 1950, featuring*

## Bisma-Rex
## Rexall Bone & Nerve Liniment
## Rexall Orderlies

Supported by Newspaper Advertising, new Window Display Material, with Cash Prizes offered for the best individual sales reports and Window Displays.

**Rexall Drug Company Ltd., Kirkewhite Street, Nottingham**

# THIS IS THE KIND OF PRACTICAL PROOF THAT ENCOURAGES SALES!




WE receive hundreds of letters from sufferers who have found in Dolcin a means of securing prompt and prolonged relief from the painful symptoms of Rheumatism and allied complaints.

A selection of testimonials have been prepared in the form of attractive window bills which you will find particularly valuable as an additional link with Dolcin advertising and display material. These can be obtained free on application to distributors.

Dolcin 600's (Dispensing) 31/6 per unit plus 10/6 P.T.;
Dolcin 500's 324/- per dozen plus 108/- P.T. (Retail 45/- per bot.)
Dolcin 100's 72/- per dozen plus 24/- P.T. (Retail 10/- per bot.)

PLEASE ORDER FROM YOUR WHOLESALER

**DOLCIN**

Reg. Trade Mark

*Sole Distributors:* **TAMPAX LTD.** *Sales Office:* 110 JERMYN ST., LONDON, S.W.1

# FOR WINTER COUGHS . . .

*Satisfy your customers need for a sedative cough linctus by recommending*

# TUSSI-RUBE

CONCENTRATED **LINCTUS**

**4 oz. SIZE COST 18/-** doz. plus **6/-** P.Tax. **RETAIL 2/3** plus **6d.** P.Tax.
Larger sizes for dispensing

*Through your usual wholesaler or direct from:*

**C. J. HEWLETT & SON LTD.,**
**35-43 CHARLOTTE ROAD, LONDON, E.C.2**
**and at GLASGOW**

# A TONIC for everyone

Most people need a Tonic at one time or another. For that reason it is sound policy to keep adequate stocks of Phosferine — The Greatest of all Tonics.
Send a post-card for colourful showcards to enable you to make a display to the best advantage.




*The Registered Trade Mark "Phosferine" is the property of PHOSFERINE (ASHTON & PARSONS) LIMITED.*

*Let everyone see you sell*

**IN LIQUID OR TABLET FORM**

# PHOSFERINE

**THE GREATEST OF ALL TONICS**

*Sole Distributing Agents in the United Kingdom:*
**BEECHAMS PILLS LIMITED, ST. HELENS, LANCS.**

# Sell SHELL GARDEN SPRAYS

**DON'T MISS THIS BONUS OFFER**

February 28th is the final date for orders benefitting by bonus terms. One tin free in every twelve, plus the usual discounts—it's worth having !

**Bonus terms apply to all the following products**

SHELL WEED-KILL
(except 5-gallon drums)
SHELL LIQUID DERRIS
SHELL LIME SULPHUR
SHELL DERRIS WETTABLE POWDER
SHELL 35% DDT WETTABLE POWDER
SHELL 5% DDT DUST
SHELL DISPERSIBLE SULPHUR
SHELL COPPER FUNGICIDE
SHELL TOMATO-SET
SHELL POWDER DUSTERS

**ALSO**

SHELLTOX HOUSEHOLD INSECTICIDE
SHELLTOX SPRAYERS (2 free in every 12)

SHELL CHEMICALS LIMITED, 112 Strand, London, W.C.2 Tel: Temple Bar 4455
(DISTRIBUTORS)
Distributors for Scotland and Northern Ireland: Wilson & Graham Ltd., Carolina Port, Dundee

SHELL

THE COOPER LABORATORY · CL · ESTABLISHED 1904

*Specialists*
*in the manufacture*
*of*
*Tablets*
*and*
*Pills*

45 years' of Specialised Manufacturing Experience assure you of

**QUALITY and ACCURACY**

**PACKED TABLETS,** supplied in the usual sizes with Chemist's Own Name Labels if desired. Specimen Label designs sent on request.

**BULK TABLETS,** including NF lines, supplied in convenient quantities from 100 upwards.

**SACCHARIN TABLETS,** in packets of 100 or in bulk.

*The*
*Cooper Laboratory*
*Watford*

*Telephone : 3612*
*Telegrams : "Science"*

**STOCK**

**CurAcho**
(CURE-ACHE-O)

**THE OIL-LESS EMBROCATION**

**and meet the Public demand for this unique oil-less, non-greasy and stainless SPIRIT EMBROCATION, which can be confidently recommended by chemists for pains of Rheumatic origin, sprains, strains, etc.**

Bottles 3 ozs. 2/3 Retail Price
6 ozs. 3/9 ,, ,,

PATA

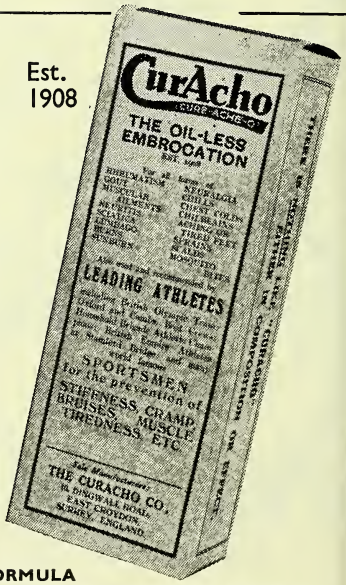
**Also Veterinary Grade supplied in**

3 oz. Bottle 1/8 6 oz. Bottle 3/1½
½ gall. 29/3 1 gall. 58/6

Supplies obtainable from your usual Wholesaler or direct from Sole Manufacturer :—

**The Curacho Company**
**East Croydon, Surrey**
Phone : CROYDON 3226

Est. 1908




**FORMULA**

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# 100% IMPREGNATED D.D.T CARDS

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**THE ORIGINAL**
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*Literature and further information from the Wholesale and Export Department,*
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London Sales Office: 71 Fleet Street, London, E.C.4. Tel: Central 0111

Boots

S16 c


## CITRUS FRUIT JUICES CONTROL

**NOTICE IS HEREBY GIVEN:**

1) That any person having a claim against the Control is required to send full particulars thereof to the undersigned on or before:—WEDNESDAY, 15th MARCH 1950. No claims received after that date will be admitted or considered.

2) That upon the Committee's being satisfied that all claims or liabilities properly payable have been discharged, it is intended that the Surplus Levy Funds remaining in hand shall be distributed to those entitled to participate therein. Such participants will be the purchasers of Fruit Juice allocated under the Scheme between 1st March 1948 and 26th August 1949, and steps have already been taken to ascertain the gallonages on which their participation rights will be based.

3) That following the discharge of all proper liabilities, the Committee will proceed to distribute the Surplus Funds whereupon the functions of the Advisory Committee will cease.

WHINNEY, SMITH & WHINNEY,
Secretaries,
Citrus Fruit Juices Control

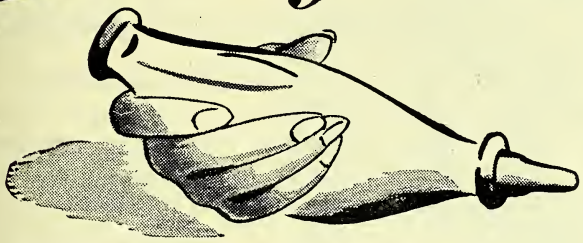
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*24th January*, 1950


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# *Bottle-fed babies—*



## THE Pharmacist's *advice*

Confronted, as he often is with a request for advice upon digestive disturbance when baby is bottle-fed, the Pharmacist may confidently recommend the use of * ' Milk of Magnesia '.

This antacid laxative checks the formation of indigestible protein curds and enables digestion to proceed with comfort.

Thus the baby is contented, receives full nutritional value from each feed and thrives.




# 'MILK OF MAGNESIA'

REGD. TRADE MARK *

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD.,

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**UNTIL FEBRUARY 28**

Our plan is to break all sales records in 1950 for two of our most popular lines. Order at once and so gain the fullest benefit from the start.

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**13 TO THE DOZEN**

and this will be on all assorted orders for a minimum quantity of six cartons (i.e. 1 gross) and over—the actual bonus on 1 gross is 1 doz.

**PASTILLES**

**13 TO THE DOZEN**

on all orders for 2 oz. tins of one gross and over, or a bonus of 1 dozen 2 oz. tins on 18 lbs. in bulk.

Simpkins of Sheffield


## National Association of Opticians

An Examination for the Fellowship Diploma of the National Association of Opticians will be held in Belfast on March 6th, and 7th. Applications by candidates to attend this Examination must reach the Secretary not later than February 11th, 1950.

An Examination will also be held at Edinburgh during the week commencing May 8th, the last date of entry being April 6th, 1950.

Application forms, Syllabus etc., may be obtained from the Director of Examinations, 8 Victoria Street, Liverpool, 2. Telephone Central 5331-2


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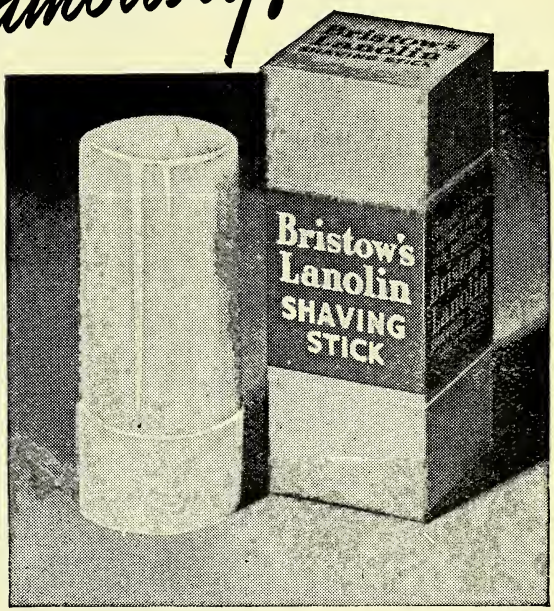
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## LANOLIN SHAVING STICK

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# TAX-FREE DISPENSING PACKS
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| ELIXIR GABAIL (Bromo-Valerianate) | ... | 40 fl. oz. | 14/3 |
| ,, ,, | ... | 80 fl. oz. | 27/- |
| HEPVISC ... | ... | 500 tablets | 32/- |
| MYCOLACTINE | ... | 500 tablets | 16/9 |
| SYRUP PERTUSSIS (Gabail) | ... | 16 fl. oz. | 6/- |

*Orders for the above, whether written or oral, must clearly indicate that dispensing packs are required.*

The following products are exempt from Purchase Tax in all packings :—

ACECOLINE
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CALCIUM CORBIERE
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**THE ANGLO-FRENCH DRUG CO. LTD.**
11-12 GUILDFORD STREET, LONDON, W.C.1

It's an EDME product!

# BEVAREX
*A nourishing and sustaining*
## MALT FOOD BEVERAGE
*of OUTSTANDING merit*

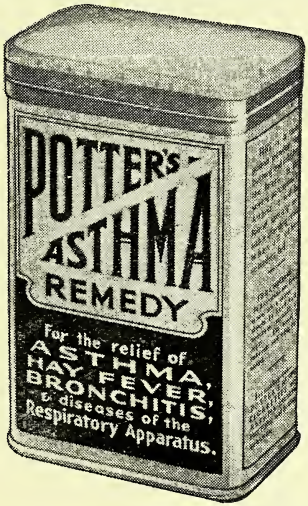
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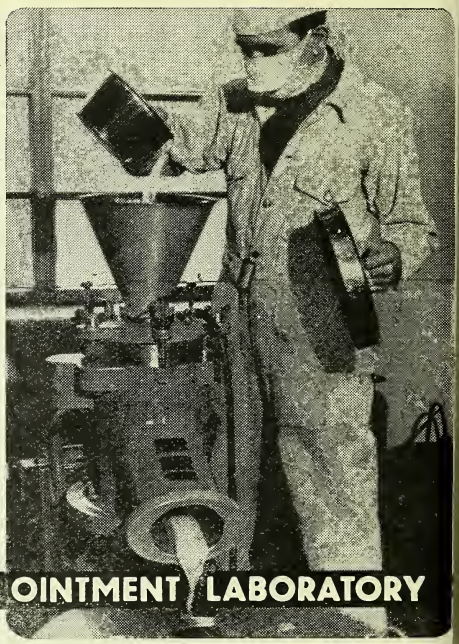
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For menopausal disorders, inhibition of lactation and prostatic carcinoma.

*Tablets of* 0.01 *mg. and* 0.05 *mg. each in bottles of* 25, 100 *and* 500
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**Tab. Æthisteron. B.P., N.F.**

For habitual abortion and to supplement parenteral progesterone in threatened abortion. To control irregular uterine hæmorrhage and certain cases of dysmenorrhœa.

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*Tablets of* 10 *mg. and* 25 *mg. in bottles of* 25 *and* 100

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**Tab. Methyltestosteron. B.P., N.F.**

For endocrine impotence and the male climacteric. Also for menorrhagia, pre-menstrual tension and mastodynia in the female.

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MOST EFFICIENT—CONFIRMED IN THE LANCET
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**Bottles of 25 tablets.** Retail price including Purchase Tax 2s. 6d., 16s. 0d. per dozen plus Purchase Tax.

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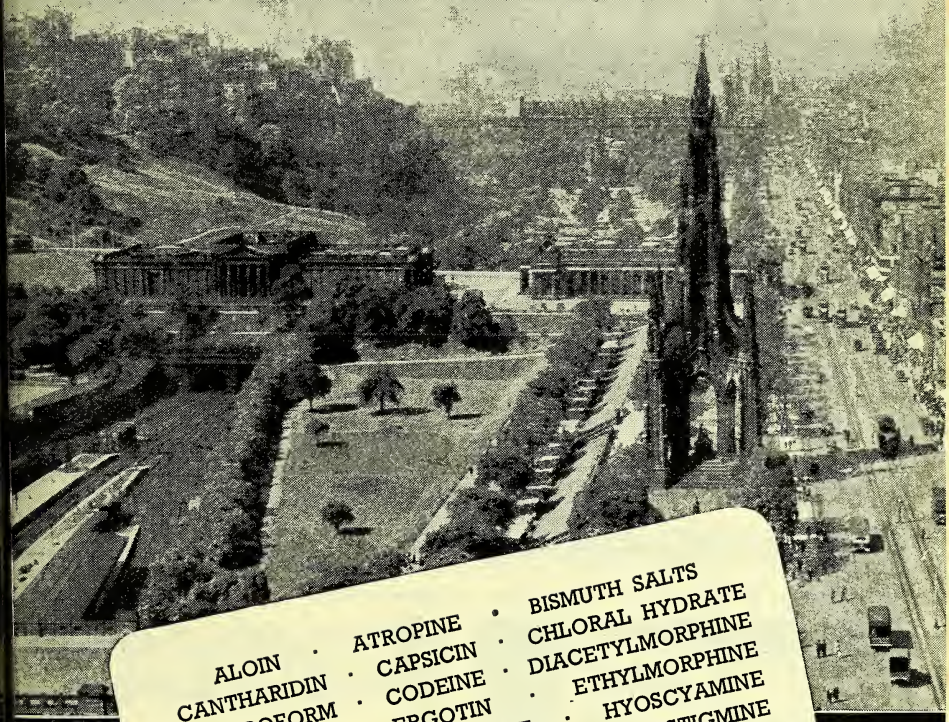
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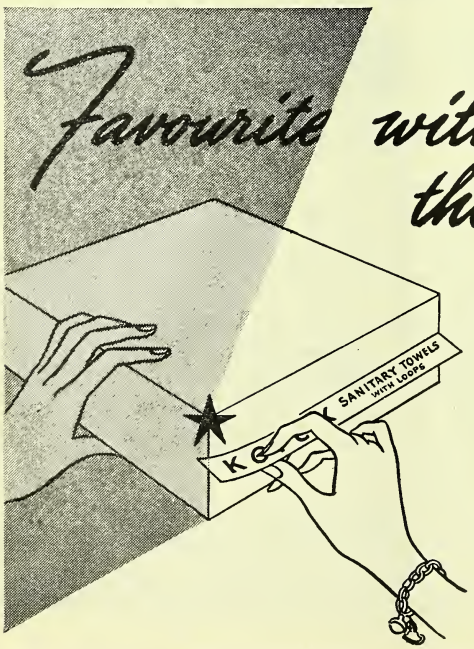
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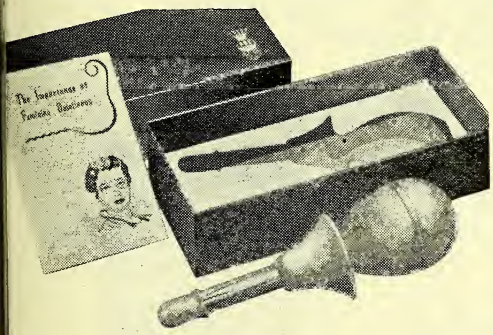



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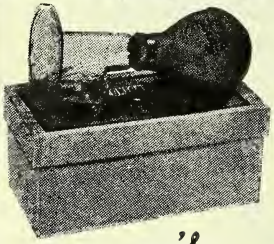
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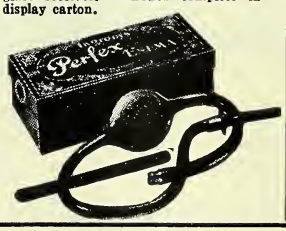
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Phone: GREAT MOOR 3006 Grams: "UNDISPUTED," STOCKPORT

'Pharmitex' PURE TOILET TISSUE is post war quality and for Chemists only.




HAROLD WESLEY LTD.
HARLEY MILLS, LONDON, N.W.10




# TINS now the official N·H·S pack for

# Elastic Adhesive Bandages

**NEW TARIFF PRICES**

*For Elastic Adhesive Bandages :*

2½″ x 3 yards 36/9 per dozen
3″ x 3 yards 43/6 per dozen
(2″ and 4″ x 3 yds. also available for counter sale)

Now the only Smith and Nephew Elastic Adhesive Bandage for N.H.S. use will be ELASTOPLAST in the familiar red tin. Production of Paragon Bandages (in cartons) has now ceased and no further orders can be accepted. By permission of the Ministry of Health, manufacturers may supply and pharmacists dispense, at the new prices, existing stocks whether in cartons or tins, until March 31st, 1950.

***NOW THE ONLY SMITH & NEPHEW ELASTIC ADHESIVE BANDAGE***

# Elastoplast

TRADE MARK

*Paragon Bandages now withdrawn*

T. J. SMITH & NEPHEW LIMITED, HULL

# Stock up to meet the demand for Radian β—the aspirin spirit liniment

## NATIONAL ADVERTISING appears this winter

**Radian β advertising will appear in these papers**

News of the World,
People,
Sunday Pictorial,
Bournemouth Daily Echo,
Exeter Express and Echo,
Torquay Times.

*Professional sample and literature on request*

THE Radiol CO
78, UPPER RICHMOND RD. LONDON S.W.15

**Distributor for Midland Area:**
**JOHN KNOX (Stoke-on-Trent) Ltd.**
**or S. Western Area:**
**J. R. GIBBS Ltd. Manor Avenue, Paignton.**
*Other areas from Local Wholesalers or direct from London.*

# ANITA SANITARY TOWELS

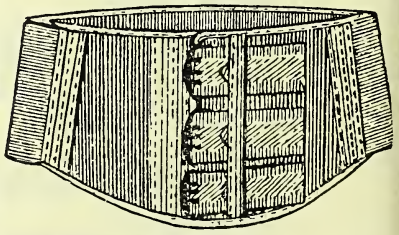
**All white soft wool with loop ends**
**Knitted covering**

HYGIENIC
HIGHLY ABSORBENT
BEAUTIFULLY SOFT
ECONOMICAL

**M. MERICA & CO LTD.**
**QUEENS MILL**
**20 SHAW ROAD, OLDHAM**
**LANCS.**
TELEPHONE: MAIN 5803

# "Clifton"
**Brand**

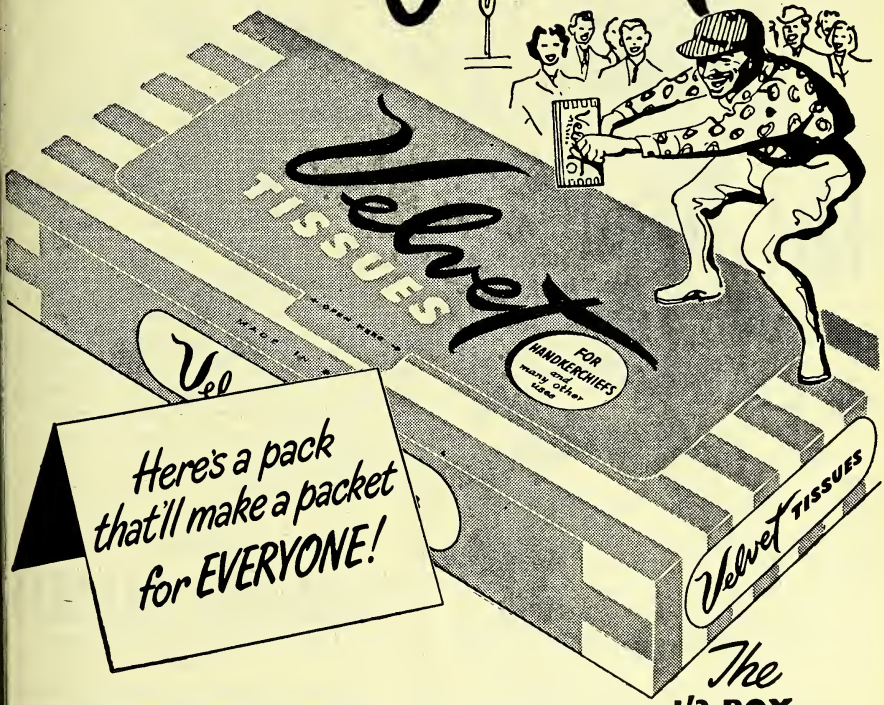
**SURGICAL APPLIANCES and SUNDRIES**
**ABDOMINAL BELTS and CORSETS**
**SUSPENSORY BANDAGES**
**JOCK STRAPS ELASTIC HOSIERY**
**TRUSSES CHEMISTS SUNDRIES**



**Appliances N.H.S. All types**
Special terms to wholesaler
*Write for price list*
**CHARLES WILLIAMS & Co.**
*(Propr.: A. G. Price)*
**STONEY STREET · BEESTON NOTTS**

# I'VE GOT A TISSUE... I'VE GOT A TISSUE...

# You're on Velvet




*Here's a pack that'll make a packet for EVERYONE!*

**... BOLD - ATTRACTIVE - COLOURFUL**
The pink candy-striped VELVET pack is designed to speed turnover. It displays well and possesses an irresistible sales-appeal.

**... QUALITY CONTENTS**
The pedigree product of a business whose business it is to KNOW paper. VELVET TISSUES are super-absorbent, strong, yet with the softness of long-treasured linen.

**... AND BIGGER VALUE**
This final sales-clinching argument, means repeat business and NEW business—size for size, price for price, quality for quality.

**VELVET TISSUES ARE TODAY'S FINEST VALUE!**

*The* **1/3 BOX**
*contains 100 (50 x 2 ply) top quality tissues*

**NATIONAL ADVERTISING COMMENCES MARCH 15th**

**ORDER NOW**
*from your usual wholesaler and mark it "URGENT—delivery before March 15th." And remember, Displays pay Dividends.*

*Advt. of the Velvet Crepe Paper Co., Ltd., Alperton Mills, Woodside End, Mount Pleasant, Alperton, Middlesex.*




# Hi! Jean! you've been reading the advertisements

She's one of the 5,750,000 women who see SILVER SILK advertisements regularly in the women's magazines.

These advertisements, backed by personal recommendations among friends, are sending SILVER SILK sales higher and higher. It is the hygienic strong-yet-soft-as-silk paper, with the easy opening device that saves paper and temper.

ATTRACTIVE SMALL-SPACE DISPLAY CROWNER AVAILABLE ON REQUEST

*See that you stock*

## SILVER SILK

*—and let them see too!*

*'end your enquiry to :—*

**KITTYBREWSTER (PAPER) LIMITED**
**Kittybrewster Works, ABERDEEN**
*Also makers of :—Everest, Med-O-San, Captis and Tartan Brand Toilet Rolls*

## "DEXAMED" DEXTRO-AMPHETAMINE SULPHATE 5 MG.

***Tablets***

**For the treatment of Obesity**

RETAIL PRICES

| | | | | | |
|---|---|---|---|---|---|
| 25 | - | 2/0 | 500 | - | 25/6 |
| 100 | - | 6/0 | 1,000 | - | 45/0 |
| 250 | - | 13/6 | Discount 33⅓% | | |

***Ample supplies available***

**MEDO-CHEMICALS LTD.**
**178 PENTONVILLE ROAD, LONDON, N1**
*Telephone and Telegraphic Address : Terminus 6568*

**CHEMIST SUNDRIES DISPOSAL STOCKS AT MORE THAN 50% REDUCTION**

## ✶ SHAVING BRUSHES

PURE BRISTLE BONE HANDLE
EX ADMIRALTY STORES

***Special Line of Bristle and Horse Hair Brushes wooden handles and string bound. To clear.***

## ✶ MILTON ANTISEPTIC

4 oz. BOTTLES

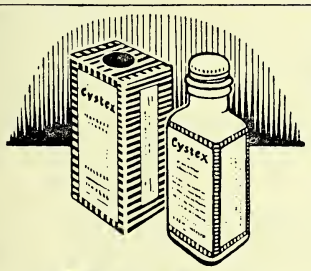
## ✶ TOOTH BRUSHES

4 ROW NYLON (a limited number).

***Wholesale Enquiries ONLY***
***Send for our Post Paid Free C & D Price Lists***

**L. FRANKENBERG LTD.**
**37 HOUNDSDITCH · LONDON · E.3**
**Telephone : AVE. 4966**

# Two Products you cannot forget




**Cystex**

**For BACKACHE, RHEUMATISM**




**Mendaco**

**For ASTHMA, BRONCHITIS, HAY FEVER**

## Because OF

## EXTENSIVE ADVERTISING

Cystex and Mendaco are still widely and consistently advertised in National Newspapers, the Provincial Press and a wide range of periodicals and magazines.

These advertisements will send new customers to you, who, in turn, will doubtless recommend Cystex and Mendaco to their friends.

Look to your stocks of Cystex and Mendaco and re-order in time so as not to disappoint any customer. Ample supplies now available — all orders executed promptly in *full*

## Because

Millions of people have, in the past, seen advertisements or these products — many have bought either Cystex or Mendaco—found them to live up to all the claims made for them—and now recommend them to other sufferers. This trade will continue, and expand.

### *DISPLAY THESE PRODUCTS*

on counter or in window, and let your customers know that you have these quality products ready at hand.

**Other Knox quality products include: Diotex, Hytex, Nixoderm, Koladyne.**

**KNOX LABORATORIES LTD., 29, Duke Street, St. James's, London, S.W.1**

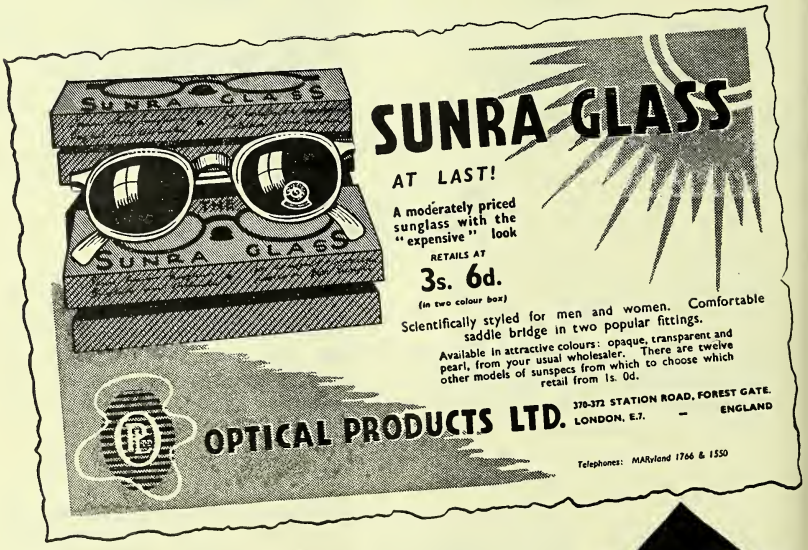
# Buying Sunglasses?

## DEVALUATION-means-REVALUATION

**. . . Customers value your discretion so . . .**

before stocking up, please ask your wholesaler to show you our 1950 range — new models, keen prices. Over 15 styles from which to choose, retailing from **9d.** with our popular L.2 model "Sunrex" with ***glass lens*** at **1/9.** individually boxed **!!**

**Buy BRITISH this Season**




**LAST SEASONS' SUNGLASS SENSATION**

**VALUE = SALES! SALES = PROFITS!**

*The Complete Service*

**WASHED AND STERILIZED READY FOR USE**






FITTED KORKALITE, MOULDED OR ALUMINIUM CAPS



CORKMOUTH

UGB

**UNITED GLASS BOTTLE MANUFACTURERS LTD.**

8 LEICESTER STREET, W.C.2

*Tel.:* GERRARD 8611 (15 Lines) *Grams:* UNGLABOMAN, LESQUARE, LONDON

# HARLENE LAUNCH NATION WIDE SALES BOOSTER!




## Over 120 MILLION New Sales-Compelling Advertisements for 'HARLENE' This Year!

And this is only the beginning! 'Harlene' are determined to smash all previous sales records . . . to capture the 'lion's share' of the hair-toilet market. The terrific force of this biggest-ever sales drive is unrestricted by any of those sales-retarding problems which affect the launching of untried products. Every 'Harlene' preparation is backed by more than 70 years world-wide reputation for promoting and maintaining hair-health.

'Harlene' Stockists in most areas, are already reporting big increases in the demand for 'Harlene' products. More and more of your customers will be asking regularly for the famous 'Harlene' lines. Prepare now to meet this big demand.

## SPECIAL BONUS TERMS FOR DISPLAYING 'Harlene' PRODUCTS

**Displaying 'Harlene' products will not only increase your sales, but will entitle you to discounts up to as much as 10% when ordering new stocks.**

**Write for full details and special order form today.**

P.A.T.A.

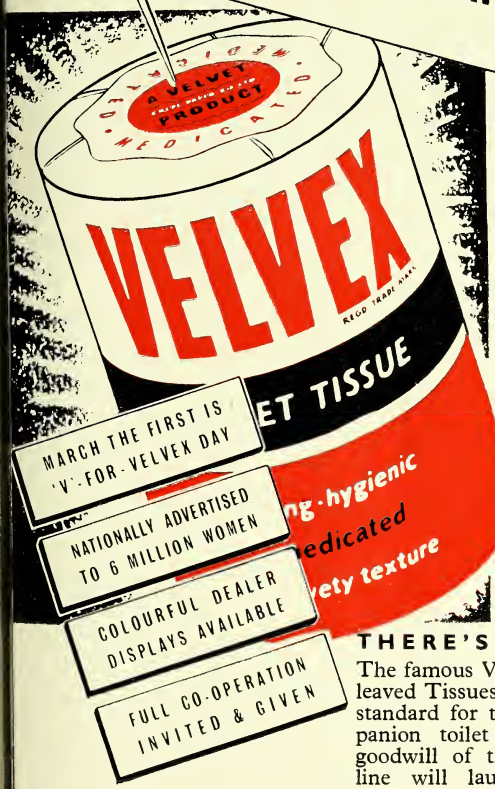
**EDWARDS HARLENE**
**LIMITED**
**58, GOUGH STREET, LONDON, W.C.1**

MARCH 1ST *is your* **RED LETTER** *day*

*Introducing*

# THE NEW

## MEDICATED, FULLY WRAPPED & SEALED




# VELVEX

## ROLL

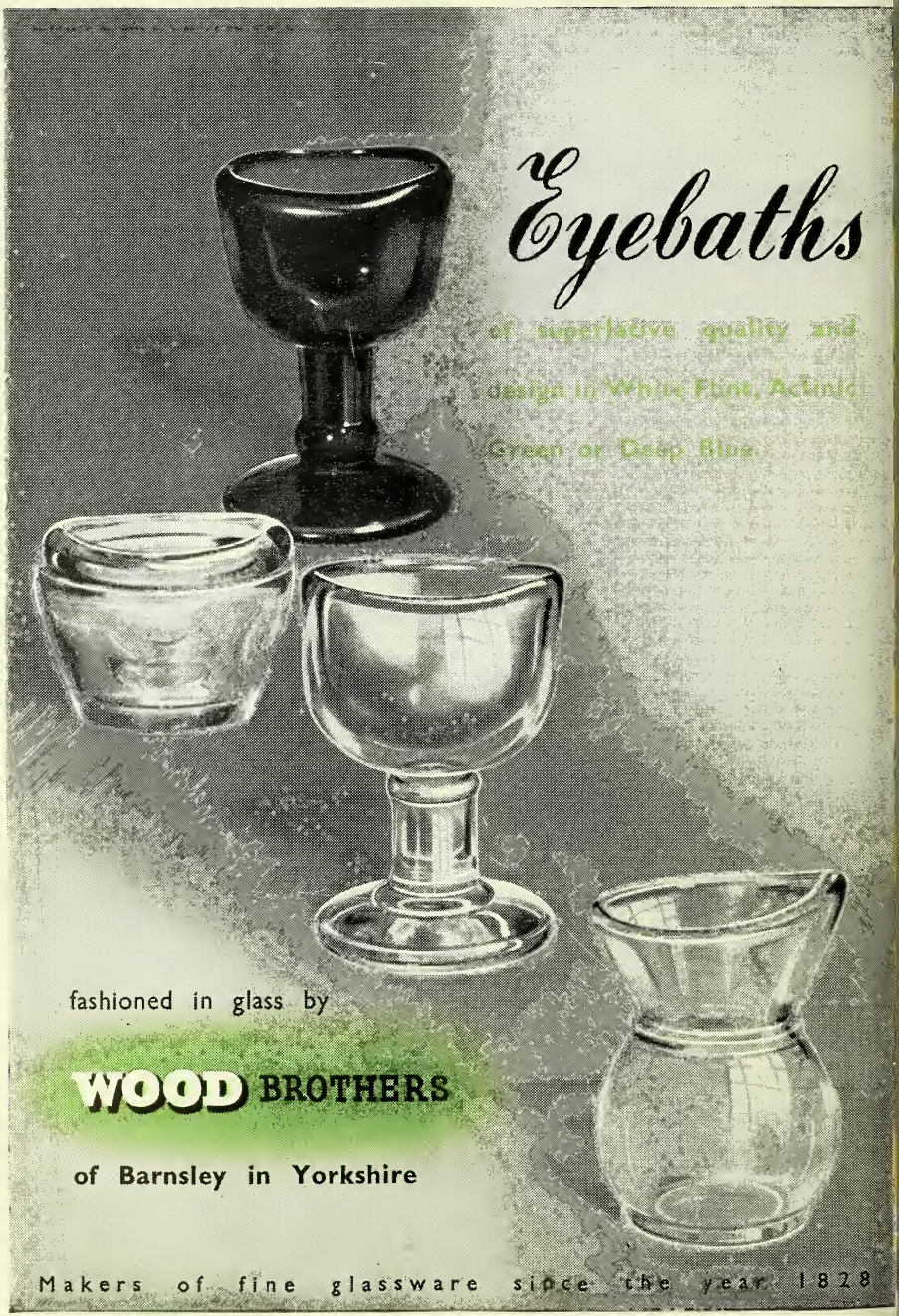
Representing all that we have striven to achieve in our manufacturing processes — the scrupulous cleanliness that this product demands — VELVEX, in the new red wrapper, is a quality toilet paper at a popular price. Completely wrapped, it is fully protected against the hazards of contamination in transit and storage.

**THERE'S A FAMILY 'LIKENESS'**

The famous VELVEX Interleaved Tissues set the quality standard for their new companion toilet roll, and the goodwill of this established line will launch the fully wrapped VELVEX ROLL towards equal heights of popular demand. ORDER NOW from your usual wholesaler FOR DELIVERY **BEFORE** MARCH 1st.




**NOTE:** *As from March 1st VELVEX Roll will be discontinued. Fully wrapped red label VELVEX will be the same price, same quality—with a new and unlimited sales potential.*


Eyebaths
of superlative quality and
design in White Flint, Actinic
Green or Deep Blue.
fashioned in glass by
WOOD BROTHERS
of Barnsley in Yorkshire
Makers of fine glassware since the year 1828

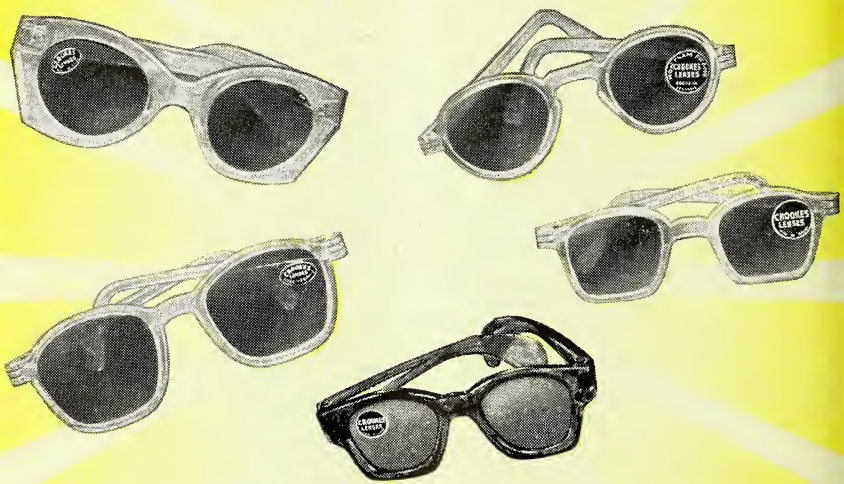

Moulded Hot Water Bottles
Fabric Hand-Made Hot Water Bottles
Hospital Sheetings, Etc.
Bathing Caps, Beach Balls
Mandelle
MADE IN GT. BRITAIN
J. MANDLEBERG & CO. LTD.
Seaford Road, Salford, 6, Lancs.
WHOLESALE ONLY
MANDELLE
Caps

*Popular & Fast Selling*

# SUNGLASSES

## *75 styles for 1950!*

*Retailing from 8d to 2gns.*



**The new 1950 range of Bartlett Sunglasses consists of popular and fast selling modern styles that are priced right to bring you quick and profitable results — truly it is the most complete assortment yet offered to the trade! Send for illustrated leaflet.**

**Before buying your Sunglasses for 1950 be sure to consider carefully this outstanding Bartlett range. Order from your wholesaler.**

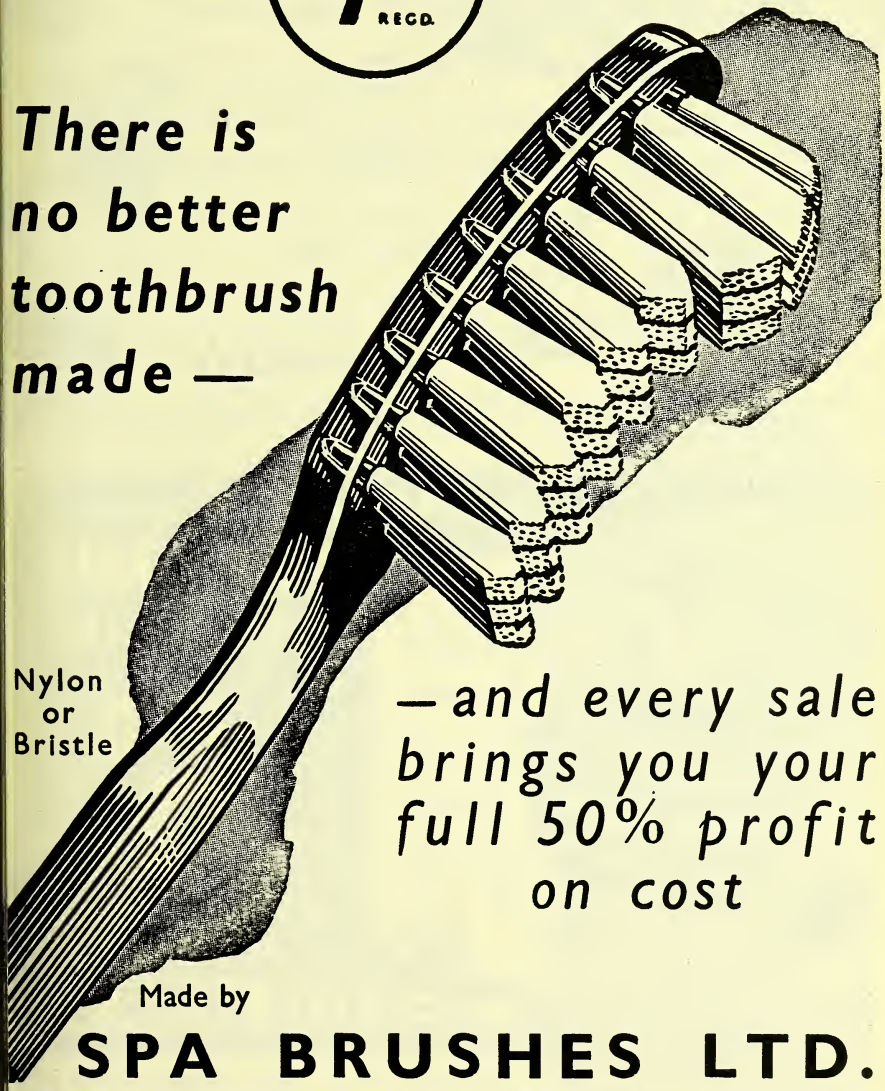
*Wholesale enquiries to*

**ALFRED FRANKS & BARTLETT CO., LTD.**

AUDREY HOUSE, ELY PLACE, LONDON, E.C.I.

Spa
REG'D.

# There is no better toothbrush made —



Nylon or Bristle

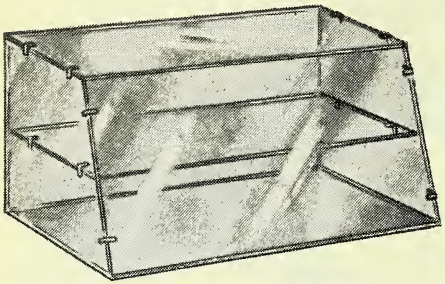
— and every sale brings you your full 50% profit on cost

Made by

## SPA BRUSHES LTD.

FREEMAN WORKS · CHESHAM · BUCKS.

## *SLOPING FRONT CASES*



These soundly constructed glass display cases with chrome fittings show off your goods to advantage and assist quick counter service. (They also prevent pilfering).

**EXAMPLES OF PRICES AND SIZES**

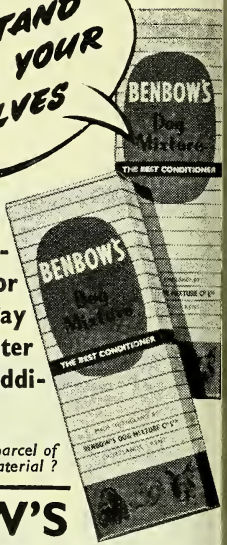
24″ long × 12″ high × 12″ wide .. .. 75/-
30″ ,, × 12″ ,, × 12″ ,, .. .. 82/-
36″ ,, × 15″ ,, × 12″ ,, .. .. 95/-
(all the above have a 9″ top and one shelf)

*Other styles can be supplied. Please write for details.*

**Wm. POTTER**
**AND SONS**

*Only Address:* ALDERSGATE WORKS, FELSHAM ROAD, LONDON, S.W.15. *Phone: PUTney 7711*

THEY'LL STAND OUT ON YOUR SHELVES




**These are the smart new Four-colour cartons for BENBOW'S. A display on shelf or counter will produce additional sales.**

*Have you written yet for parcel of attractive free show material ?*

**BENBOW'S**
DOG MIXTURE Famous since 183
10 STATION ROAD, SHORTLANDS, KEN

*The LARGER and improved*
**TOILET ROLL**
**RETAIL PRICE**
**6D**




AGENTS REQUIRED IN CERTAIN DISTRICTS

INCLUDING PURCHASE TAX
(IN ENGLAND & WALES ONLY)

ALL ENQUIRIES TO:- **KALIS PAPER CO.**

341 COMMERCIAL RD., LONDON, E.1 · Tel.: STEpney Green 3722

# JEYPINE

## *means business!*

## NEW PINE DISINFECTANT BACKED BY JEYES' GOODWILL IS SELLING FAST— BECAUSE IT KILLS GERMS FASTER!

HERE are **4** outstanding facts that can mean worthwhile extra turnover, extra profit for you. **1.** Jeypine is a Jeyes' oduct—backed by Jeyes' goodwill. **2.** It kills more germs d kills them faster. **3.** It is nationally advertised. **4.** At · for a big 6-oz. bottle it is first-class value for money. l this adds up to a real selling opportunity for you in a idly expanding market.

**ERE'S STEADY NEW BUSINESS FOR YOU**

re is a repeat seller that brings you steady new busi- ss. Put Jeypine on display; recommend Jeypine for in all cleaning water; help your customers to have sher, healthier homes. Jeypine is non-poisonous, yet least 5 times more powerful than carbolic acid—that why it kills more germs and kills them faster. The fact it Jeypine is a Jeyes' product means a good deal to ur customers!




### HOW WE HELP YOU TO SELL JEYPINE

**POWERFUL NATIONAL ADVERTISING**—planned to build up use of Jeypine as a daily health habit.

**COLOURFUL DISPLAY MATERIAL**—to help you turn this advertising into regular extra cash in your till.

**PLUS**—the solid sales-making reputation of the House of Jeyes for making fine disinfectants.

*Jeypine means business—get your share now!*

*Include Jeypine in your composite orders for best terms.*

**JEYPINE** THE PROTECTIVE PLUS

*BIG 6 OZ. BOTTLE RETAILS AT 1/-*
*(TRADE PRICE 9/- DOZ.)*

YES' SANITARY COMPOUNDS CO. LIMITED
MILLBROOK, CHIGWELL, ESSEX

# We are TOTALITARIANS

ABOUT CORKS

LET'S admit it. So far as corks are concerned, we're out-and-out dictators. Regimentation, standardization—these are our watchwords. We plead guilty to our reputation for reducing corks to a state of *unbelievable* uniformity.



"Want to be *different*, eh?"

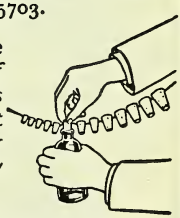
We do it by sheer ruthlessness. Corks hate us! Boiled alive, pressed flat, shut in the dreaded "hot-box," they are then sliced and punched, tapered, sanded, notched, bleached and branded—no atrocity is spared to stamp out individuality.

Not a cork can escape; many are completely eliminated. Sometimes only 5 per cent. of a *whole batch* survive to become corks of our Grade A quality. If a cork is even 1/63rd of an inch too small, it is pitilessly rejected and ground into by-products.

* * *

IF YOU, too, feel totalitarian about corks, and want them, in each grade, as uniform in size and quality as skill and experience can make them—please get in touch with us by letter or telephone. Armstrong Cork Company, Ltd. (Closure Division), Kingsbury, London, N.W.9. Telephone: Colindale 7080. Scottish Branch: 5 Oswald Street, Glasgow, C.1. Telephone: Central 5703.

*FREE ON REQUEST. The handy Armstrong String of Standard Cork Sizes shows at once what size you want—whether for dispensing or for ordering supplies. May we send you one?*



**ARMSTRONG'S CORKS**

CORKS · CROWN CORKS · MOULDED CAPS






**AVON TIN**

PRINTERS LTD

IMPERIAL WORKS, ST. GEORGE, BRISTOL, 5

GRAMS TINPAX BRISTOL PHONE BRISTOL 57877/8



**"CELLOPHANE" BAGS**

| A FEW STOCK SIZES. | | | | ALL PER 1,000 | |
|---|---|---|---|---|---|
| 1¾ x 2¾ .. | 12/6 | 3½ x 6½ .. | 30/- | 4½ x 8 .. | 37/6 |
| 2⅜ x 2¾ .. | 16/- | 3½ x 8 .. | 35/- | 5 x 5 .. | 30/- |
| 2½ x 4 .. | 18/- | 4 x 4 .. | 23/6 | 5⅛ x 6½ .. | 37/6 |
| 3 x 4 .. | 22/6 | 4 x 6 .. | 30/- | 5 x 9 .. | 45/- |
| 3 x 5 .. | 24/- | 4 x 7 .. | 35/- | 5½ x 10 .. | 50/- |

"CELLOPHANE" SHEETS FOR WRAPPING 20 x 30, 50/- 500. Rolls, 5 yds, x 20", 18/- doz. also in Colours—Red, Green, Blue, Yellow, Pink, Violet and Tango, 30 x 20, 60/- 500. Rolls, 20" x 50 yds. 15/-. White Tissue, 26 x 16, 10/6; ream 3 for 30/- Colours, 30 x 20, 16/- ream 3 for 45/-.

Large stocks Crepe, Wrapping, Card, etc.
ASK FOR LISTS AND SAMPLES

**ALLAN'S** 37, FARRINGDON STREET, LONDON, E.C.4.
PHONE: CENtral 5947 · 'GRAMS: SUNFLECTA, CENT, LONDON
(UNDER HOLBORN VIADUCT) Business Hours: 9 a.m. to 6 p.m. Closed Saturdays



**URICURE TABLETS**

**"SPECIAL" BACK & KIDNEY PILLS**

**"MANOIDS" OCCASIONAL PILLS**

**ASPIRIN TABLETS** (From Howard's Aspirin)

THE ACTON PILL & TABLET Co. Ltd.
ASH VALE, ALDERSHOT
(and all Sundries Houses)




# More than Half a Million

## *users are asking for refills — others require new Ozonol Cabinets*

Stock to meet the ever-increasing demand and regular repeat business stimulated by first-class National publicity.

**OZONOL Air Purifier complete:**
*Retail—5/10d. Trade—42/- per doz. + P.T.*

**REFILLS:** *Retail—2/- Trade—18/- per doz. TAX FREE*

# OZONOL AIR PURIFIER

*Popular since 1927*

***Order from your wholesaler or direct from the manufacturer***

OZONOL LABORATORIES (1930) LTD. New Wharf Rd. LONDON. N.1. TERminus 3727 & 6660

---

# WILES VITAMIN dogfood

## IS FULL OF GOODNESS

*and it sells on sight*

This quality dog food contains concentrated meat, liver and fish. It is packed in handy airtight tins, attractively labelled in red and black, and specially designed for easy stacking and display.

Bright attractive showcards and window bills are now available.

Order your supplies of Wiles Vitamin dog food through your usual Wholesaler.




RETAIL PRICE

*Made exclusively by WILES of WOODMANSEY E. YORKS.*

***The finest dog food in the world***

T2

WALLACE BRAND

# TABLETS
# FINE CHEMICALS
# PHARMACEUTICALS
# AMPOULES

## EXPORT

ENQUIRIES INVITED

WALLACE (Pharmaceutical Products) LTD
198 Finchley Road
LONDON, N.W.3

Telephone : HAM 7627
Cables : WALLACOL, LONDON

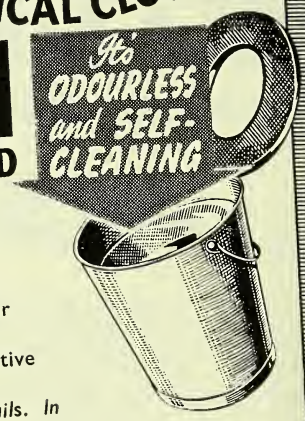
WELL KNOWN FIRM OF TOILET ROLL AND INTERLEAVED PACKET MANUFACTURERS (Factory LONDON) WITH MODERN PLANT WILL ACCEPT ORDERS, FROM ESTABLISHED FIRMS, AT VERY KEEN PRICES FOR 6 oz., 7 oz. and 8 oz. MEDICATED TOILET ROLLS. TOILET ROLLS CAN BE BANDED WITH HIGHLY GLAZED BANDS—2/3 COLOURS TO CUSTOMERS OWN DESIGN. ANY WORDING DESIRED CAN BE PRINTED ON EACH SHEET.

Box No. C. 5446

FOR ALL PAIL AND CHEMICAL CLOSETS!

# RACASAN

SELF-CLEANING SANITARY FLUID




Racasan is a concentrated sanitary fluid, specially formulated for use in all types of pail and chemical closets, commodes, bed pans, etc.

Racasan is packed in four handy sizes, and is in great demand. Buy now to increase your summer turn-over.

Generous discounts, well advertised, attractive packs, no poison licence required.

*Ask your usual Factor or Wholesaler for full details. In case of difficulty write:—*

DEODOR-X COMPANY of ENGLAND LTD
ELLESMERE PORT . CHESHIRE

FOR EVERY MONTH OF THE YEAR

# "ZEMS"
# HERBAL LICORICE TABLETS




## THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained from C.F. Wholesale Houses

## ZEMS LTD

**718-724 Seven Sisters Road, London, N.15**

Telephone: STAMFORD HILL 6658-9

every customer for lipstick . . .

IS A CUSTOMER FOR LIP-COTE

Supplement your lipstick sales with the profit-making line that women everywhere have waited for! LIP-COTE—the only preparation of its kind—applied over lipstick, definitely safeguards against smear, while enhancing lip beauty. Widespread national advertising now being launched. Send for details, including attractive trade terms to:—



British Glandular Products Ltd
37 Chesham Place. London, S.W.1

LIP-COTE
for SMEARPROOF LIPS

Antiphlogistine

Dispensing Pack

*Now available*

*on the* P.A.T.A.

When ordering please specify "Antiphlogistine Dispensing Pack" which is supplied only in cartons containing ½ doz. of 10½ oz. size, 16 oz. size, 32 oz. size, or 5 lb. size. Prices per dozen and quantity terms are the same as for the standard pack less Purchase Tax.

THE DENVER CHEMICAL MFG., CO.
12 Carlisle Road • London • N.W.9

**Pharmaceutical Emulsions and Emulsifiers**

by L. M. Spalton, B. Pharm., M.P.S.

Today, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment.

In this book the considerable range of these products has been classified, together with essential practical points about their pharmaceutical use. It contains chapters devoted to the theory of the formation of emulsions, properties of different emulsifying agents (classified into groups according to their structure and characteristics), the formulation and preparation of emulsions, the general methods of preparing emulsions with details of technique and causes of emulsion separation, preservation and storage of emulsion etc

The practical uses of emulsifiers is dealt with at considerable length, together with methods of handling each type of emulsifying agent and full notes of incompatibilities and other matters.

The book also contains a classified index of over 300 emulsion agents used in the Drug, Toilet and Cosmetic trades and other industries, with references to their composition, type and uses, together with an index of manufacturers.

Useful and up-to-date — this book provides essential information in concise form.

★ *Every pharmacist should possess a copy* **5/6** post free

*Send remittance with order to :—*

The Publisher, **The Chemist & Druggist**
**28 Essex Street, Strand, London, W.C.2**

# Goya Beauty Base doubles the




# Sales-appeal of Goya Face Powder

So great was the demand for a Goya foundation cream that we introduced BEAUTY BASE—made specially for Goya Face Powder. The *one* shade is exactly right; fragrance is matched to perfection. Our national advertising promotes Face Powder and Beauty Base together as BEAUTY ALL DAY. You'll be seeing a lot of BEAUTY ALL DAY—watch out for the colour pages. Goya Beauty Base and Goya Face Powder look well together. Give them front-of-the-counter display. *They sell well together.*

## Beauty All Day by Goya

GOYA BEAUTY BASE 3/9 *in only one shade and one fragrance. Trade Price 18/2 a dozen.*
GOYA FACE POWDER 2/6 *in six shades and one fragrance. Trade Price 12/- a dozen.*

GOYA · 161 NEW BOND STREET · LONDON W · 1




You'll get an ACTIVE RESPONSE from an 'ASPRO' DISPLAY

'ASPRO' displays are powerful puller because they act as vivid reminders to thousands of 'ASPRO' users, and 'ASPRO' is better known to the public, and means more to them, than any other line of its kind. **'ASPRO' displays give you a double advantage**—the increase your profit margin by qualifying yo for bonus and at the same time are, in themselves, making steady sales for you.

**WINTER DEMAND SHIFTS 'ASPRO' QUICKLY**

***Keep good marginal stocks on hand***

**'ASPRO' BAGS—PRICES REDUCED.** We are passing on to you the full benefit of the lower production costs of paper bags :—**GREASEPROOF (formerly 9/- per 1,000) NOW 6/- per 1,000. 2-OZ. WHITE (formerly 6/6 per 1,000) NOW 5/- per 1,000.** We suggest you take advantage of this opportunity by ordering now

P.A.T.A. Made by ASPRO LIMITED, Slough, Bucks ASPRO

**C.V.B**

**CARR'S VITAMIN $B_1$**

**PREPARED WHEAT GERM**

**A RICH SOURCE OF VITAMIN B**

Eaten as a cereal or sprinkled on other cereals, stewed fruit, etc.

***ONLY FROM CHEMISTS***

**3/- per large (14 oz.) packet**

***TRADE:***

**27/- doz.** *Net Delivered* **Case of 2 doz. 54/-** *Case 3/- returnable*

FROM PRINCIPAL WHOLESALERS OR FROM THE MANUFACTURERS

**CARR'S FLOUR MILLS Ltd., CARLISLE**

**SURE-SELLING STOCK**

**OVER 150 YEARS REPUTATIO**

**KEARSLEY'S**

THE ORIGINAL

**WIDOW WELCH'S PIL**

9d. BOX PROFIT by ordering 1 do 3/3½ size. Bonus given on ev dozen (13). It pays to push this s

**C. & G. KEARSLEY LT**

**71 Dartmouth Rd., London, S.E**

*Est. 1787*

**INDIA'S** (also Pakistan & Ceylon) retail & wholesale drug trade; importers and forgn. mfrs'. agents; Indian mfrs. are blanket covered by country's best drug trade journal: **CHEMIST and DRUG STORE NEWS.**

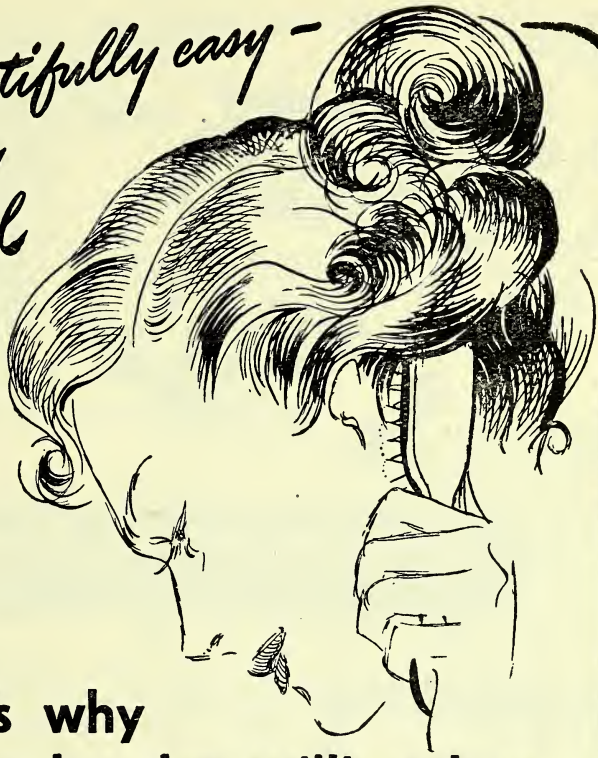
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**31 Hamam St., Bombay, 1**

*London Office:* **D. S. Cooper, 2-3 Norfolk St., Strand, London, W.C.2.** *Temple Bar 4687*

☆

*So beautifully easy — so easily beautiful*



**..that's why women by the million buy**

# BRYLFOAM

Yes, millions of women have proved for themselves the brilliant results they get with Brylfoam, the original cream shampoo. They know that Brylfoam reveals the true beauty of their hair and makes it radiantly clean; they know, too, that Brylfoam is so beautifully easy to use. That's why Brylfoam means ready sales and quick profits for *you*. Get your share of the brisk business Brylfoam brings. Help our bigger-than-ever advertising to do an even bigger job by linking up with window and counter displays. Keep up your stocks of Brylfoam—and keep up your profits!

**THE ORIGINAL CREAM SHAMPOO**




*unty Perfumery Co. Ltd., Honeypot Lane, Stanmore, Middlesex* *royds T20*

# TABLETS & PILLS

PACKED OR BULK

Our up-to-date equipment enables us to quote the lowest possible prices.
Special formulæ our speciality. All standard, official and semi-official products promptly supplied.

THE OLDEST SPECIALISTS IN THE TRADE
ESTABLISHED 1768

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Telephone: Canonbury 3466

**CASTLE HUSKISSON LTD**
Manufacturing Chemists, Swinton Works, Moon Street, Islington
LONDON, N.1.

*A Great* **NEW** *long lasting De-Mister*

*IN THREE SIZES*
**37/6** *per GALLON*
**12/6** *per QUART*

*Also supplied in*
**2/6** *BOTTLES*
*packed in Display Cartons of 2 DOZ. for Retail Sales*




**Safeguard your WINDOW DISPLAYS and AVOID "MISSED" SALES WITH—**

# Mistovoid

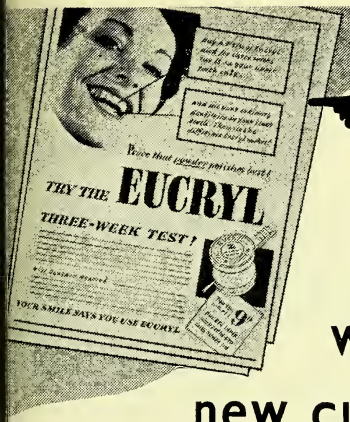
***PREVENTS MIST — LONG LASTING***

AT last, a de-misting preparation which is the complete answer to condensation problems on shop windows, showcases, etc. MISTOVOID will prevent condensation and remains effective from 1 to 3 weeks. It is a non-abrasive, non-inflammable preparation with cleaning as well as de-misting properties. It is easily applied and is exceptionally economical for treating large surfaces.

- **AS SUPPLIED TO WELL-KNOWN SHOPS AND STORES THROUGHOUT THE COUNTRY**
- **LET YOUR CUSTOMERS SEE YOUR PRODUCTS—KEEP YOUR WINDOWS CLEAR WITH "MISTOVOID"**
- *For a normal Double-fronted shop a Gallon lasts a Season*

*Trade Inquiries Invited—*

**INDUSTRIAL FLUIDS LIMITED**
**1a, Halliwick Court, Lyndhurst Avenue, Woodhouse Road, London, N. 12** **Tel: ENTerprise 1147**




# These EUCRYL advertisements in these papers will bring you new customers for Britain's largest-selling Tooth Powder




Every time a Eucryl advertisement appears in 1950, over 20 million people will see it—thousands of new buyers will want to try this best-selling Tooth Powder. That means new business for you and *permanent* business, too—for Eucryl users seldom change to any other dentifrice.

**Free Display Material**

Link up with this bigger Eucryl campaign—send for details of free sales-aids to Eucryl Ltd., Southampton.

# EUCRYL

**TOOTH POWDER, DENTURE POWDER AND DENTAL PLATE FIXATIVE**

## *SIDE LINES—The confines of Sport*

Infringement of these boundaries in Tennis and Football penalises the player.

How different in Business. Here the Side-Line occupies a different place in the scheme of things. It expands, not confines, it can be an asset by attracting new and regular customers, can add to the amenities of your business and—most important of all—can show a handsome profit.

Why don't YOU try a LENDING LIBRARY ?—It will do all this for you and without cost to yourself, on a SIMPLE RENTAL PLAN. Write NOW to :

**SCOTT'S LIBRARIES Ltd.**
**WEYSIDE ROAD, GUILDFORD**
*SPECIALISTS IN LIBRARY INSTALLATIONS*

*For cool customers*

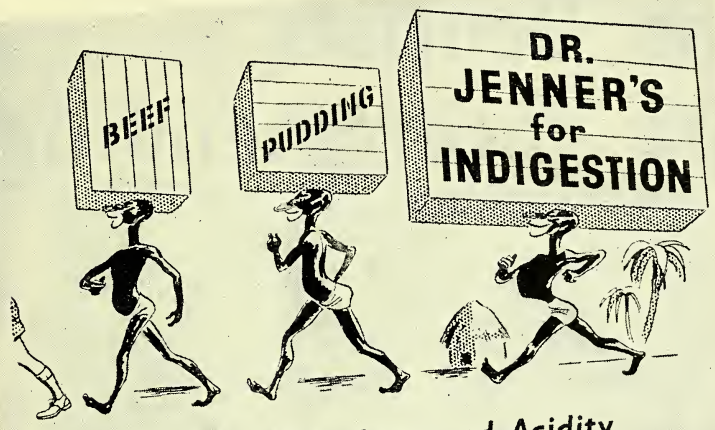
**Victory·V**
GUMS & LOZENGES N33
FRYER & CO. (Nelson) LTD., Nelson, Lancs

**"RODINE"**
RAPID RAT REMOVER
*Always in demand!*
T. HARLEY LTD., PERTH, SCOTLAND

SHOWCARDS CARTONS & BOXES DISPLAYS
PRINTED OR PLAIN
OF EVERY KIND, FOR EVERY PURPOSE
CARTON BOX & PRINTING Co. LTD
BRINKSWAY, STOCKPORT
PHONE:- STO 4700
TRANSPARENT BOXES

BRITISH MADE **AMPOULE FILES**
**are now available**
We are now in a position to manufacture large quantities of Ampoule Files and invite inquiries
**DOMINION STEEL CORPORATION LTD.**
**"FLEET" WORKS**
**QUEEN'S ROAD, SHEFFIELD, 2**

# Did you know?




## Also for Heartburn and Acidity

It's not how much you eat, it's what you eat that brings on indigestion. Acid stomach, flatulence, pains after meals are quickly relieved by Dr. Jenner's Absorbent Lozenges —famed for over 150 years for the speedy relief of indigestion. Price 1/7 and 3/9 from Chemists only.

**Savory & Moore Ltd., Standard Works, Lawrence Rd., London, N.15**

This is one of the advertisements for Dr. Jenner's Absorbent Lozenges planned to appear regularly during the next twelve months in National Media, including the following :—

PUNCH, PICTURE POST, DAILY MAIL, DAILY MIRROR, NEWS OF THE WORLD, SUNDAY DISPATCH, SUNDAY PICTORIAL, SUNDAY GRAPHIC, EMPIRE NEWS, NEWS CHRONICLE, ETC.

*Make sure your stocks are adequate to meet demand. Write now for advantageous Bonus Terms.*

QUALITY ENDURES
TRADE MARK
ESTABLISHED 1794

**SAVORY & MOORE LTD.**
**STANDARD WORKS,**
**LAWRENCE RD., LONDON, N.15**

# The Dentifrice the Dentists are recommending

Every day more and more Dentists are recommending their patients to use Amm-i-dent, the toothpowder that really helps to prevent decay.

Amm-i-dent is the only dentifrice manufactured in England by special arrangement with the Eastern Graduate Research Foundation of N.Y.

It will pay you to display it.

DISTRIBUTORS:
**Fassett and Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1**

*Amm-i-dent*

*The Ammonium Ion Tooth Powder*




*MADE AND GUARANTEED BY THE*
**WERNET DENTAL MANUFACTURING CO. (Branch of Stafford Miller, Ltd.), MILL GREEN, HATFIELD, HERTS.**
**Tel. No.: HATfield 3221**


Printed by THE HAYCOCK PRESS, LTD., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, MORGAN BROTHERS (PUBLISHERS), LIMITED, at 28 Essex Street, Strand, London, W.C.2.

# CARNEGIE

*Manufacturers of Fine Chemicals*

B . I . F
May 8-19
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CARBONATE

CITRATE

OXIDE

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OXYIODOGALLATE

## BISMUTH SALTS

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**CARNEGIE CHEMICALS (WELWYN) LTD**

WELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND

TELEGRAMS: CARNECHEM, WELWYN GARDEN TELEPHONE: WELWYN GARDEN 506 (4 lines)

A 'CARNEGIES OF WELWYN' COMPANY

The CHEMIST AND DRUGGIST
FEBRUARY 11, 1950

THE CHOICE OF EXPERTS

ZEAL BRITISH MADE



CLINICALS

No higher in price than nondescript makes . . . Also—Household Bath and Works Thermometers the best of their kind.

G. H. ZEAL LTD., LOMBARD ROAD, MORDEN ROAD, LONDON S.W.19

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*Prescribed and recommended by the Medical Profession in Hospitals, Private Practice and Government Departments throughout the World.*
*Tax free Dispensing Pack available.*

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P.A.T.A.